SONY

エレクトロニックビューファインダー
ELECTRONIC VIEWFINDER

DXF-701
DXF-701CE
DXF-701WS
DXF-701WSCE

サービスマニュアル／補修部品表

SERVICE MANUAL

1st Edition (Revised 1)

X-RAY RADIATION WARNING

Be sure that parts replacement in the high voltage block and adjustments made to the high voltage circuits are carried out precisely in accordance with the procedures given in this manual.

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TABLE OF CONTENTS

1. OPERATING INSTRUCTION

2. SERVICE INFORMATION

2-1. BOARD LAYOUT ..... 2-1 (E)
2-2. REPLACEMENT OF MAIN PARTS ..... 2-1 (E)
  2-2-1. Notes on Replacement of MAIN Board ... 2-1 (E)
  2-2-2. Replacement of CRT/DY Ass'y ..... 2-1 (E)
2-3. REPLACEMENT OF VF LOUPE ..... 2-2 (E)
2-4. REPLACEMENT OF OUTSIDE HOLDER T AND
  EYEPIECE OUTER RING ..... 2-3 (E)

3. ALIGNMENT

3-1. PREPARATION ..... 3-1 (E)
  3-1-1. Equipment Required ..... 3-1 (E)
  3-1-2. Connection and lnitial Setting ..... 3-1 (E)
  3-1-3. Notes on Adjustment ..... 3-1 (E)
3-2. VIEWFINDER SYSTEM ADJUSTMENT .... 3-2 (E)
  3-2-1. +9.5V Adjustment ..... 3-2 (E)
  3-2-2. Heater Voltage Pre-Adjustment ..... 3-2 (E)
  3-2-3. Vertical Hold Adjustment ..... 3-2 (E)
  3-2-4. Horizontal Hold Adjustment ..... 3-3 (E)
  3-2-5. Focus Adjustment ..... 3-3 (E)
  3-2-6. Picture Frame Adjustment ..... 3-4 (E)
  3-2-7. Operational Amplifier Output
    Adjustment ..... 3-5 (E)
  3-2-8. Bright Calibration Adjustment ..... 3-5 (E)
  3-2-9. Peaking Offset Adjustment ..... 3-6 (E)
  3-2-10. Heater Voltage Adjustment ..... 3-6 (E)

4. BLOCK DIAGRAM

5. SCHEMATIC DIAGRAM AND BOARD LAYOUTS

MAIN BOARD 5-1
SUB BOARD 5-3
FRAME 5-5

6. SEMICONDUCTOR PIN ASSIGNMENTS

7. SPARE PARTS

7-1. NOTES ON REPAIR PARTS 7-1
7-2. EXPLODED VIEWS 7-2
7-3. ELECTRICAL PARTS LIST 7-4

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SECTION 1
OPERATING INSTRUCTIONS

This section is extracted from operation manual.

• DXF-701/701CE

The DXF-701/701CE is an electronic (monochrome) viewfinder which can be attached to a Sony CCD Color Video Camera DXC-D30/D30P. For details of operation, refer to the Operating Instructions for the camera.

Principal Specifications

Picture tube	1.5-inch monochrome
Indicators	REC/TALLY, TAKE, BATT, SHUTTER, GAIN UP
Resolution	600 TV lines
Signal system	DXF-701: EIA standards DXF-701CE: CCIR standards
Power supply	12 V DC
Power consumption	2.1 W
Mass	660 g approx. (1 lb 7 oz)
Maximum external dimensions	236 (W) × 85 (H) × 219 (D) mm (9 3/8 × 3 3/8 × 8 5/8 inches)
Accessories	Operation Guide

Design and specifications are subject to change without notice.

• DXF-701WS/701WSCE

The DXF-701WS/701WSCE is an electronic (monochrome) viewfinder which can be attached to a Sony CCD Color Video Camera DXC-D30/D30P/D30WS/D30WSP. For details of operation, refer to the Operating Instructions for the camera.

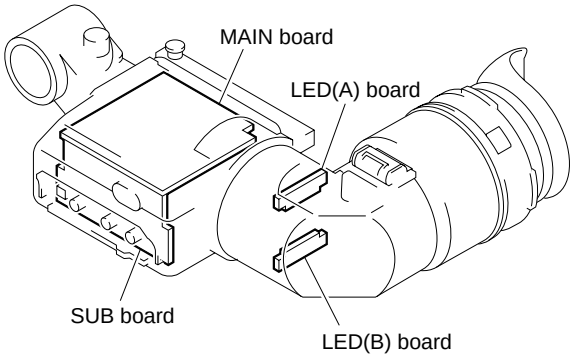
Principal Specifications

Picture tube	1.5-inch monochrome
Indicators	REC/TALLY, TAKE, BATT, SHUTTER, GAIN UP
Resolution	600 TV lines
Signal system	DXF-701WS: EIA standards DXF-701WSCE: CCIR standards
Power supply	12 V DC
Power consumption	2.1 W
Mass	660 g approx. (1 lb 7 oz)
Maximum external dimensions	236 (W) × 85 (H) × 219 (D) mm (9 3/8 × 3 3/8 × 8 5/8 inches)
Scan size	16:9/4:3
Accessories	Operating Instructions

Design and specifications are subject to change without notice.

SECTION 2
SERVICE INFORMATION

2-1. BOARD LAYOUT



2-2. REPLACEMENT OF MAIN PARTS

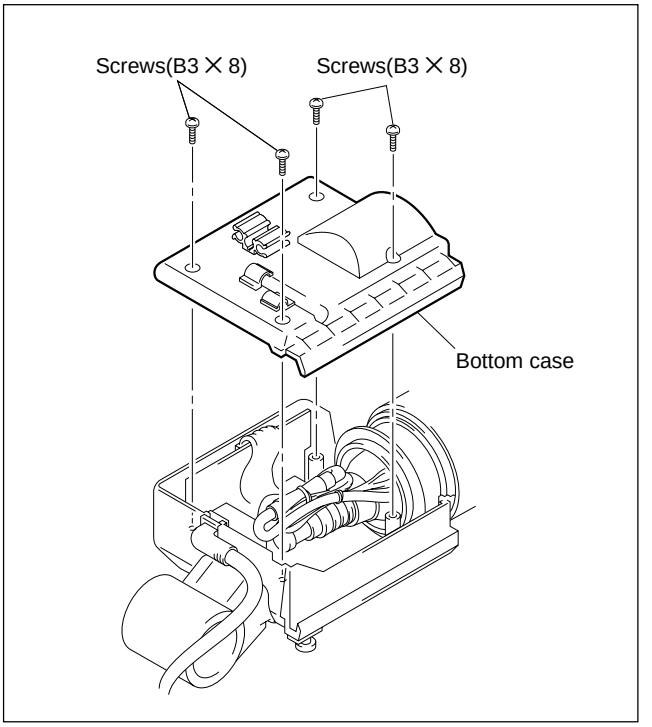
2-2-1. Notes on Replacement of MAIN Board

To replace the MAIN board, perform adjustment referring to Section 3."ALIGNMENT".

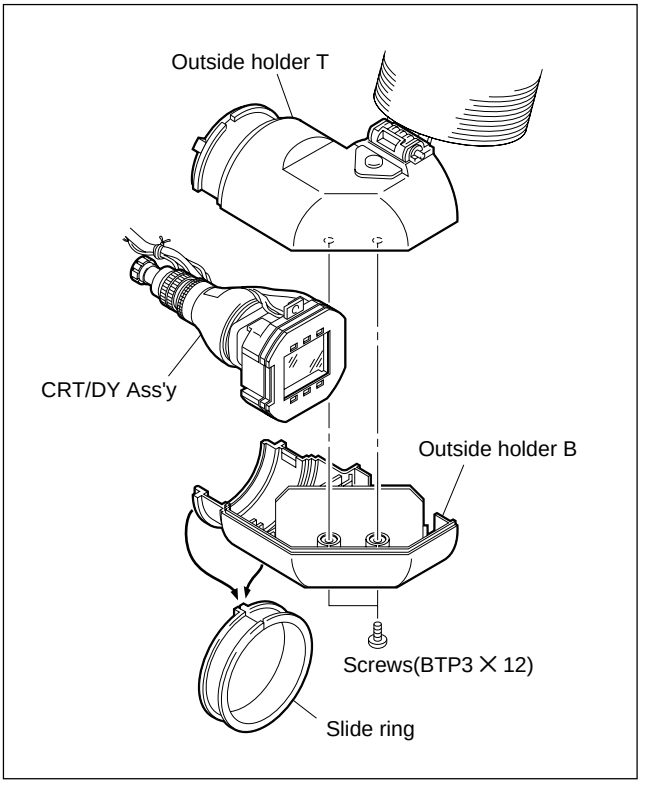
2-2-2. Replacement of CRT/DY Ass'y

Note: If a deflection yoke is replaced, you should replace assembly of CRT and deflection yoke (CRT/DY ASS'Y).

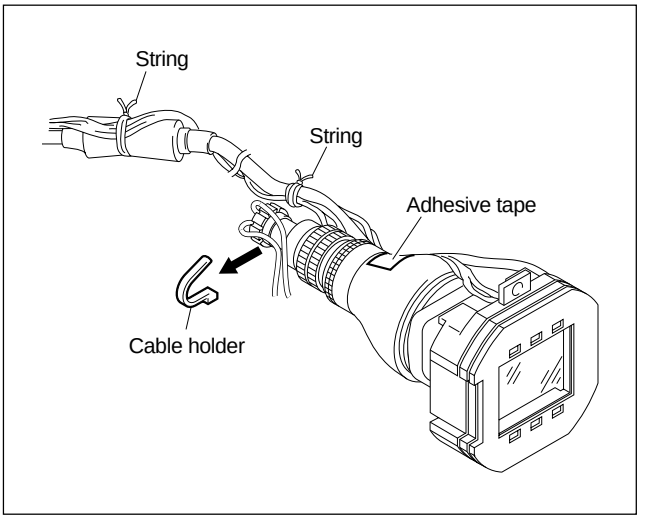
1. Remove four screws as shown in Figure and remove the bottom case.



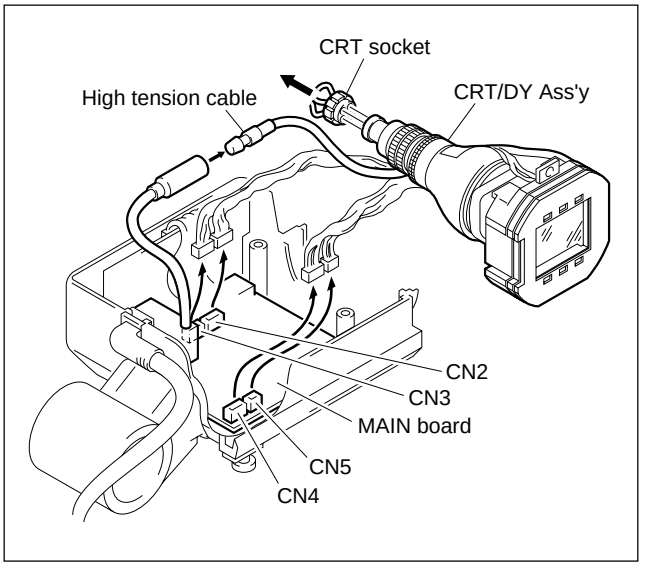
2. Remove the slide ring as shown in Figure.
   Remove two screws and remove the CRT/DY ASS'Y from outside holders B and T.



3. Untie two strings and remove an adhesive tape and Cable Holder.



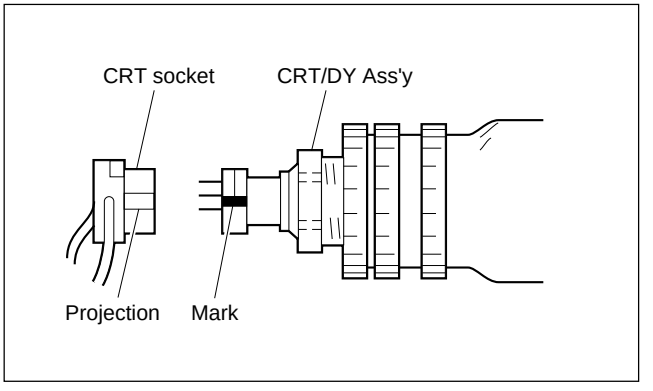
4. Disconnect four connectors CN2, 3, 4, 5 and 7 on the MAIN board and high-tension cable. Disconnect the CRT socket from the CRT/DY ASS'Y.



Note: In disconnecting, carefully pull the CRT socket backward, as the pins of CRT/DY ASS'Y is liable to bend.

5. When installing a new CRT/DY ASS'Y, reverse the above procedures.

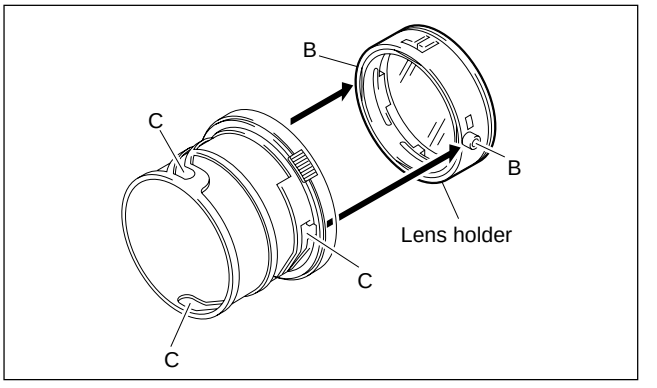
Note: In reconnecting the CRT socket, be sure to match a projection of the CRT socket with a mark of the CRT/DY ASS'Y.



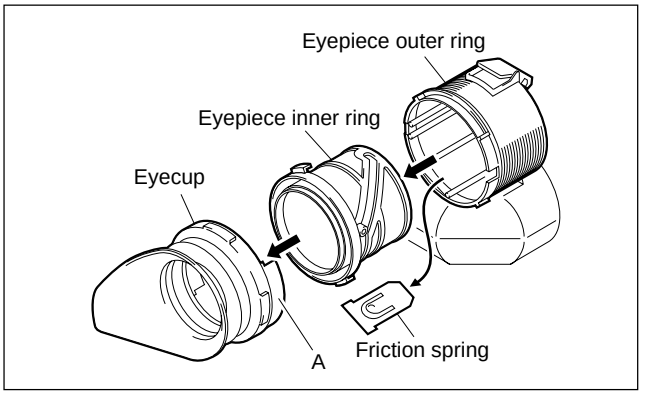
2-3. REPLACEMENT OF VF LOUPE

1. Insert a minus screw driver to the clearance between portion A and eyepiece outer ring as shown in Figure. Remove eye cup by lifting its portion A and remove eyepiece inner ring.

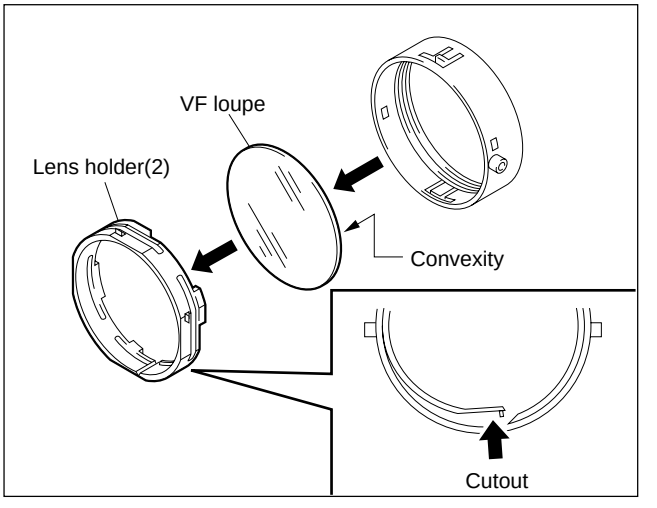
Note: When removing eyepiece inner ring, the friction spring is liable to remove.



2. Hold the portion B as shown in Figure. Remove the lens holder along the groove C.

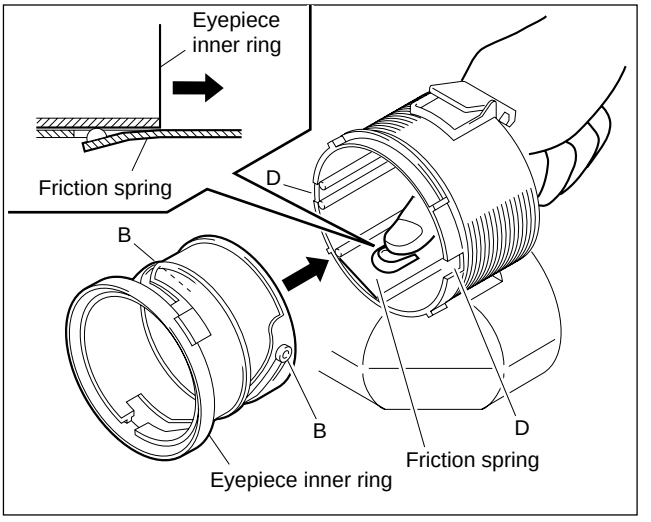


3. Remove one side of cutout portion as shown in Figure. Pull out the lens holder (2) and remove the VF loupe.



4. When installing the VF loupe, reverse the above procedures.

Note: **① When installing the VF loupe, ensure the direction of VF loupe. (Refer to Item 2-3-3.)**
② When installing eyepiece inner ring, ensure the inserting position of friction spring and hold it by finger. Match boss of portion D and insert the inner ring to the outer ring.

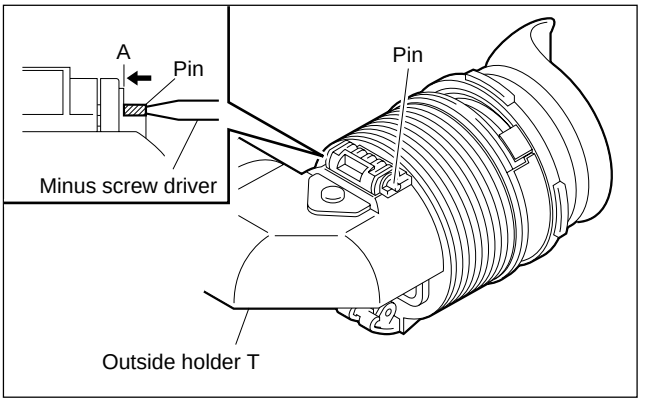


- Optional VF loupe
  There are two kind of VF loupes as optional accesory. Use a VF loupe to match your visibility range.

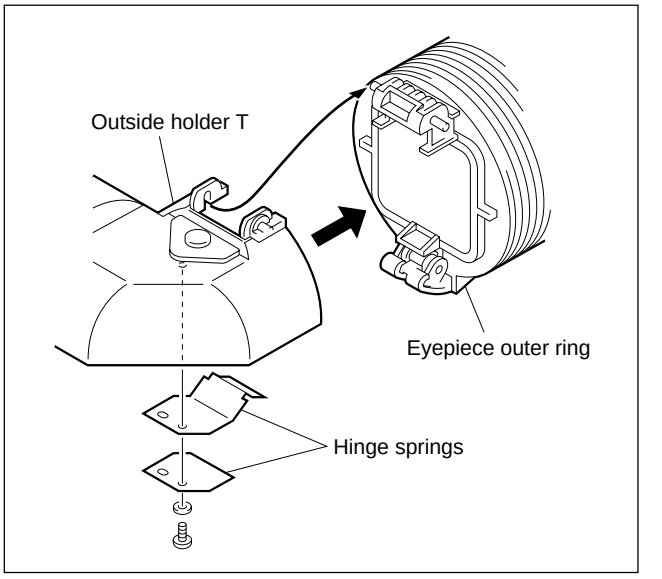
  VF loupe for aged eyes;
  –2D to +1D (Sony part No. 3-725-276-01)
  –0.5D to +3D (Sony part No. 3-176-501-01)
  (For reference) Standard ; –3D to 0D

2-4. REPLACEMENT OF OUTSIDE HOLDER T AND EYEPIECE OUTER RING

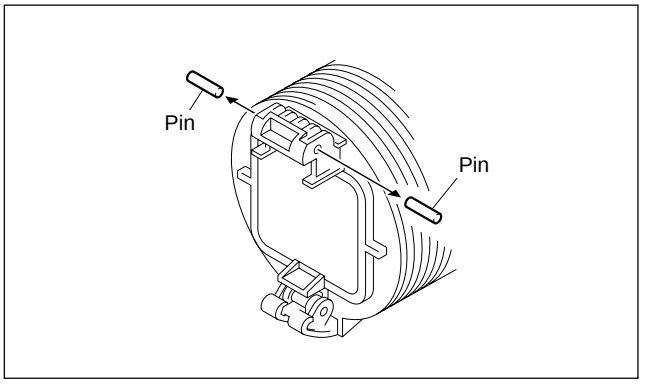
1. Remove the Outside holder T referring to Section 2-2-2. “Replacement of CRT/DY Ass’y”.
2. Push two pins to portion A by minus screw driver as shown in Figure.



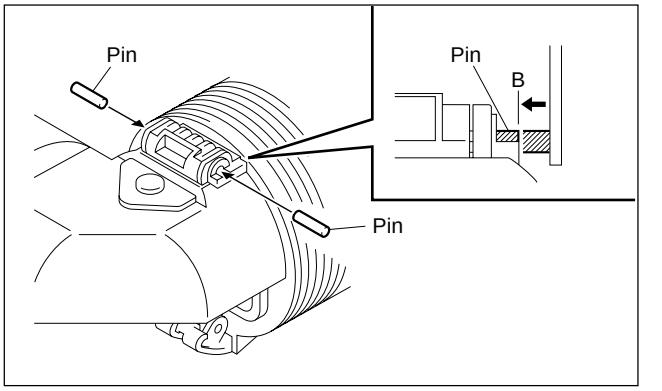
3. Remove a screw, washer and two hinge springs. Then, remove the outside holder T and eypiece outer ring as shown in Figure arrow.



4. Pull out two pins.



5. Replace outside holder T or eyepiece outer ring to new one. Insert two pins to portion B by minus screw driver as shown in Figure.



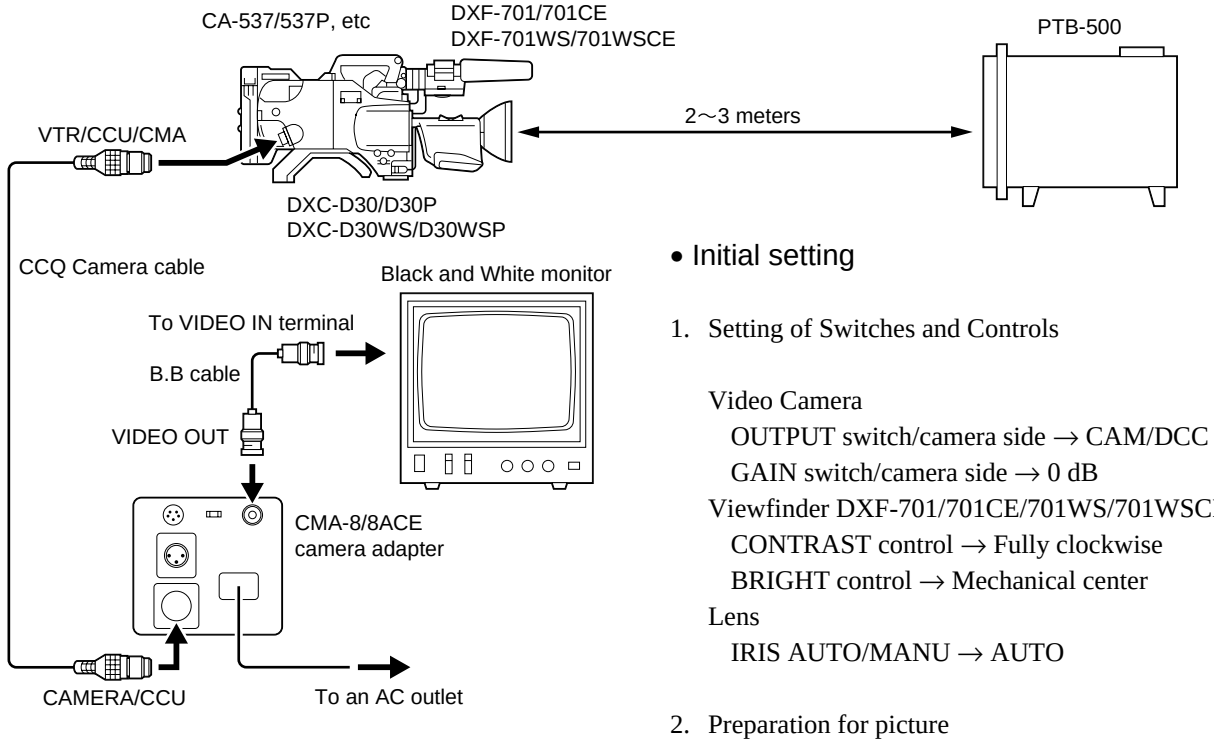
SECTION 3
ALIGNMENT

3-1. PREPARATION

3-1-1. Equipment Required

1. Pattern box PTB-500
   Sony part number J-6029-140-B
2. Resolution chart
   Sony part number J-6026-100-A
3. White Window chart
4. Video camera DXC-D30/D30P (for DXF-701/701CE)
   DXC-D30WS/D30WSP (for DXF-701WS/701WSCE)
5. Camera Adaptor CA-537/537P, etc.
6. AC Adaptor CMA-8/8CE/8A/8ACE
7. Camera Cable CCQ-2BRS
8. B/W monitor PVM-91/91CE or equivalent
9. Oscilloscope
10. Waveform monitor
11. Digital voltmeter
12. Frequency counter

3-1-2. Connection and Initial setting



• Initial setting

1. Setting of Switches and Controls

   Video Camera
   OUTPUT switch/camera side → CAM/DCC OFF
   GAIN switch/camera side → 0 dB
   Viewfinder DXF-701/701CE/701WS/701WSCE
   CONTRAST control → Fully clockwise
   BRIGHT control → Mechanical center
   Lens
   IRIS AUTO/MANU → AUTO

2. Preparation for picture
   (1) Adjust the lens zoom so that the Resolution chart frame coincides the underscanned picture frame on the monitor.
   (2) Adjust the iris control for the best resolution of the monitor.

3-1-3. Notes on Adjustment

1. This “ALIGNMENT” is used for the adjustment of DXF-701/701CE and DXF-701WS/701WSCE. Therefore, when adjusting DXF-701/701CE, use the video camera DXC-D30/D30P.
   Also, in case of DXF-701WS/701WSCE, use the video camera DXC-D30WS/D30WSP.
2. When adjusting DXF-701WS/701WSCE, set the DXC-D30WS/D30WSP to “4:3” position. But, when performing procedure 7 of “3-2-6. Picture Frame Adjustment”, set the DXC-D30WS/D30WSP to “16:9” position.
   Therefore, regarding the setting manner of “16:9” or “4:3”, refer to item of “Menu screen” of “2-7. SERVICE MODE OPERATION” in the service manual DXC-D30WS/D30WSP Vol.1, select the ADVANCE menu “PAGE 9”, and set “16:9” or “4:3”.

3-2. VIEWFINDER SYSTEM ADJUSTMENT

3-2-1. +9.5 V Adjustment

Note: Perform the adjustment only when measured voltage is more than ±1 % with respect to the specified voltage.
When this adjustment is carried out, all of following adjustments must be confirmed.

Equipment: Digital voltmeter
Test point: TP1/MAIN board
Adjusting point: ⊘RV1 (VO-ADJ)/MAIN board
Specification: +9.5 ±0.05 Vdc

3-2-2. Heater Voltage Pre-Adjustment

Equipment: Digital voltmeter (AC mode)
Test point: TP5 ⇔ TP6/MAIN board
Specification: 0.65 ±0.03 Vrms

Adjustment Procedure

If not met the specification, adjust ⊘RV4(VH-ADJ)/ MAIN board.

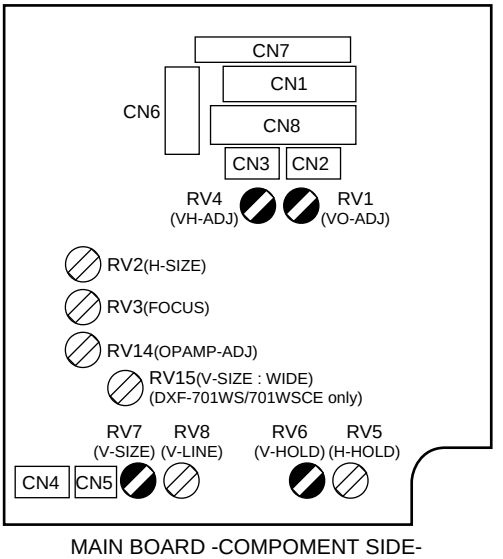
3-2-3. Vertical Hold Adjustment

Note: Perform adjustment with removing R76 resistor on the MAIN board. After adjustment, re-mount R76 resistor.

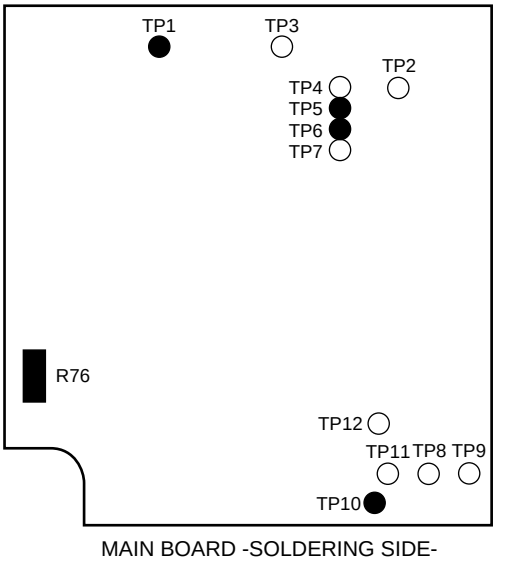
Equipment: Frequency counter
Preparation:
⊘RV7 (V-SIZE)/MAIN board → Mechanical center
(If ⊘RV7 (V-SIZE)/MAIN board is marked, not turn ⊘RV7 (V SIZE)/MAIN board.)
Test point: TP 10/MAIN board
Adjusting point: ⊘RV6 (V-HOLD)/MAIN board
Specification: NTSC : 48 ±0.5 Hz
PAL : 38 ±0.5 Hz

Adjustment Procedure

Adjust ⊘RV6 (V-HOLD)/MAIN board so that the specification is met while the viewfinder is free-run state (Viewfinder is not input any video signal.) by pressing the RET button of Lens.



MAIN BOARD -COMPOMENT SIDE-



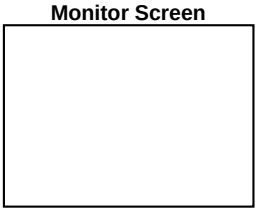
MAIN BOARD -SOLDERING SIDE-

3-2-4. Horizontal Hold Adjustment

Note: When this adjustment is carried out, "3-2-2. Heater Voltage Pre-Adjustment" must be confirmed.

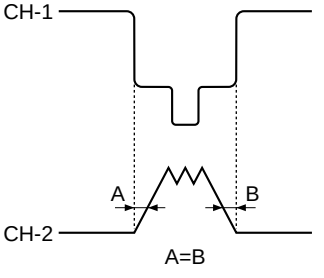
Object: White Window chart
Equipment: Waveform monitor, Oscilloscope
Trigger: CH2/Oscilloscope
Preparation:

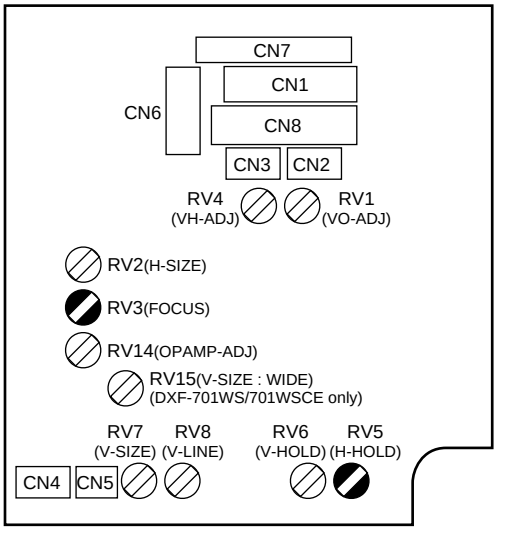
1. Shoot the White Window chart and adjust the lens zoom so that the picture on the monitor screen becomes all white.



2. Adjust the iris control for the white level at VIDEO OUT connector on the camera is 100 ±2 IRE (PAL: 700 ±14 mV).

Test point: CH1 TP4 (G1)/MAIN board
CH2 TP9 (+H DEF)/MAIN board
Adjusting point: ◓RV5 (H-HOLD)/MAIN board
Adjustment:





MAIN BOARD -COMPOMENT SIDE-

3-2-5. Focus Adjustment

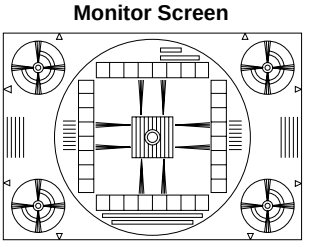
**Note: "3-2-6. Picture Frame Adjustment" and this adjustment affect each other.
Repeat these adjustments until both specifications are met. Also, confirm "3-2-2.Heater Voltage Pre-Adjustment" .**

Object: Resolution chart
Equipment: Waveform monitor
Preparation:

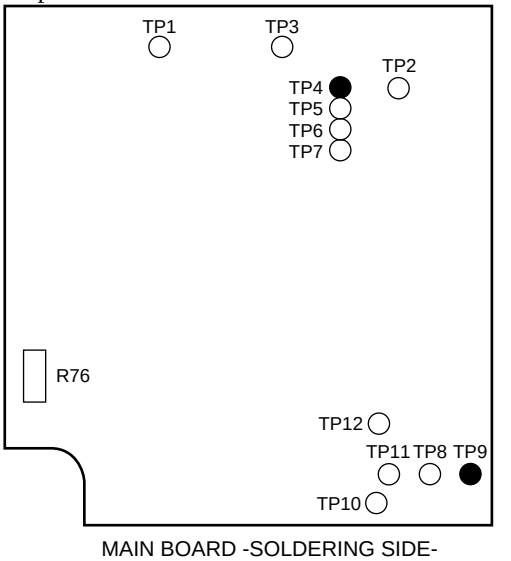
1. IRIS AUTO/MANU (Lens) → MANU
2. BRIGHT control (Viewfinder)
   → Mechanical center
3. CONTRAST control (Viewfinder)
   → Fully clockwise ↺
4. PEAKING control (Viewfinder)
   → Fully counterclockwise ↺

Adjustment:

1. Adjust the lens zoom so that the resolution chart frame coincides the underscanned picture frame on the monitor screen.



2. Adjust the iris control for the white level at VIDEO OUT connector on the camera is 100 ±2 IRE (PAL: 700 ±14 mV).
3. Adjust ◓RV3 (FOCUS)/MAIN board so that the picture on the viewfinder screen is best focused.



MAIN BOARD -SOLDERING SIDE-

3-2-6. Picture Frame Adjustment

Note: "3-2-5. Focus Adjustment", "3-2-7. Operational Amplifier Output Adjustment" and this adjustment affect each other. Repeat these adjustments until both specifications are met. Also, confirm "3-2-2.Heater Voltage Pre-Adjustment".

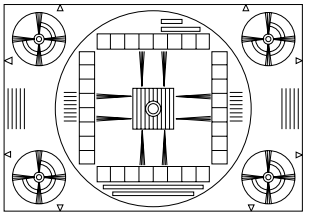
Object: Resolution chart
Equipment: Waveform monitor
Preparation:

1. BRIGHT control (Viewfinder)
   → Mechanical center
2. CONTRAST control (Viewfinder)
   → Mechanical center
3. PEAKING control (Viewfinder)
   → Fully counterclockwise ↺
4. Remove the eye cap from the viewfinder.

Adjustment:

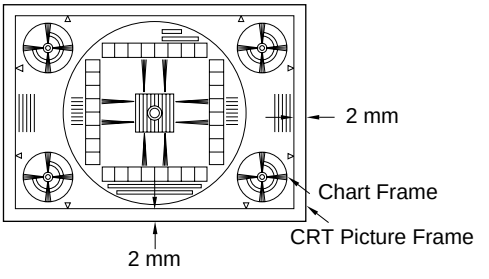
1. Adjust the lens zoom so that the resolution chart frame touches the underscanned picture frame on the monitor screen.
2. Adjust the iris control for the white level at VIDEO OUT connector on the camera is 100 ±2 IRE (PAL: 700 ±14 mV).

Monitor Screen



3. Adjust ⊘RV2 (H-SIZE)/MAIN board so that the H size of resolution chart is underscanned by approximately 2 mm from the CRT picture frame.
4. Adjust ⊘RV7 (V-SIZE)/MAIN board so that the V size of resolution chart is underscanned by approximately 2 mm from the CRT picture frame.

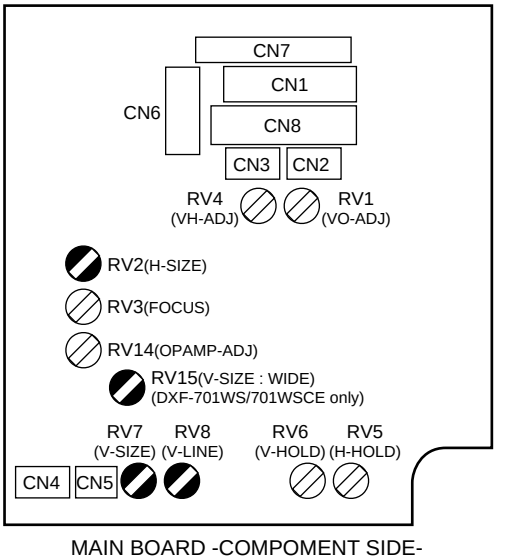
Viewfinder Screen



5. Adjust ⊘RV8 (V-LIN)/MAIN board so that the distortion of each circle at the four corners of resolution chart is minimized.
6. Repeat procedure 2 to 4 until the specification are met.

Note: In case of the adjustment for DXF-701/701CE, the adjustment is completed the procedure 1 through procedure 6.

7. The following adjustment is only reguired DXF-701WS/701WSCE.
   (1) Set "16:9" on the ADVANCE menu "PAGE 9" in DXC-D30WS/D30WSP.
   (2) Adjust ⊘RV15 (V-SIZE :WIDE)/MAIN board so that the circle in the center of resolution chart becomes a circle.
   (3) Set "4:3" on the ADVANCE menu "PAGE 9".
   (4) Confirm that the procedure 4 and procedure 5. If not met, readjust the procedure 4 through procedure 7.



MAIN BOARD -COMPOMENT SIDE-

3-2-7. Operational Amplifier Output Adjustment

Note: When this adjustment is carried out, "3-2-5. Focus Adjustment" and "3-2-2.Heater Voltage Pre-Adjustment" must be confirmed.

Equipment: Digital voltmeter

1. Lens iris of Video camera → Close "C"
2. BRIGHT control (Viewfinder) → Fully counterclockwise ↺
3. CONTRAST control (Viewfinder) → Fully counterclockwise ↺
4. PEAKING control (Viewfinder) → Fully counterclockwise ↺

Test point: TP12/MAIN board
Adjusting point: ⊘RV14 (OP-ADJ)/MAIN board
Specification: 6.0 ±0.5 V

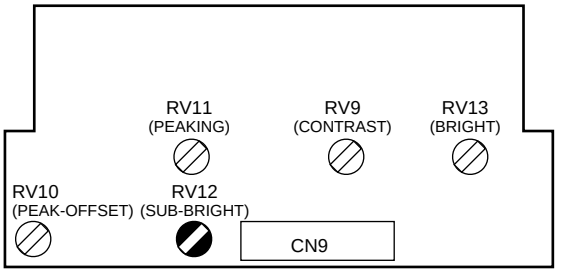
3-2-8. Bright Calibration Adjustment

Preparation:

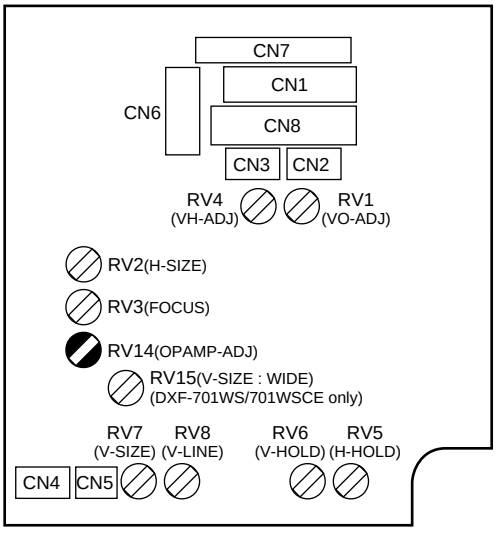
1. OUTPUT/DL/DCC+ switch/camera side → BARS
2. BRIGHT control (Viewfinder) → Fully counterclockwise ↺
3. CONTRAST control (Viewfinder) → Fully counterclockwise ↺

Adjustment:

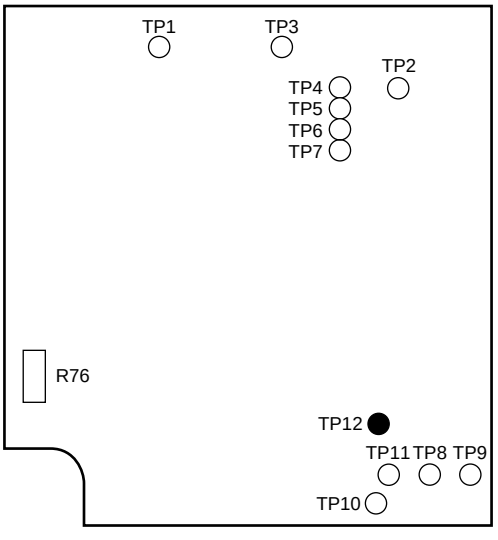
Adjust the picture by turning ⊘RV12 (SUB-BRIGHT)/ SUB board clockwise ↻ from fully counterclockwise ↺ position so that the picture of the white part just appears on the monitor screen.



SUB BOARD -COMPOMENT SIDE-



MAIN BOARD -COMPOMENT SIDE-



MAIN BOARD -SOLDERING SIDE-

3-2-9. Peaking Offset Adjustment

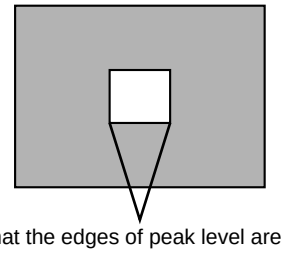
Object: White Window chart

Preparation:

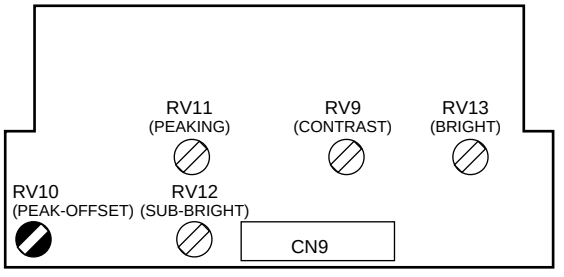
1. Shoot the White Window chart and adjust the lens iris so that the white level at VIDEO OUT connector on the camera is 50 ±2 IRE (PAL: 350 ±10 mV).
2. CONTRAST control (Viewfinder)
   → Mechanical center
3. PEAKING control (Viewfinder)
   → From fully clockwise to counterclockwise by 10 degrees.

Test point: Viewfinder Screen

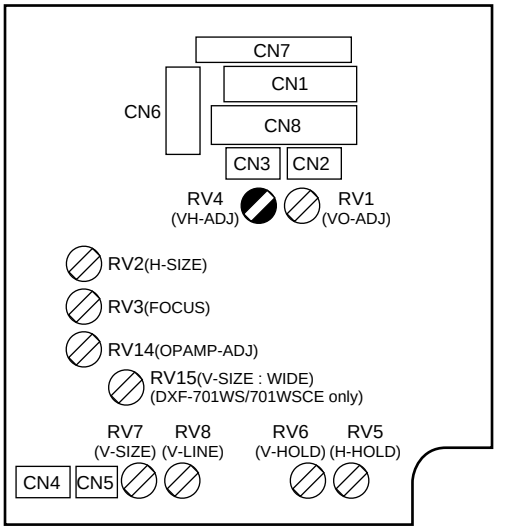
Adjustment: Adjust ⊘RV10 (PEAK-OFFSET)/SUB board so that the right and left edges of peak level are the same.



Be sure that the edges of peak level are the same.



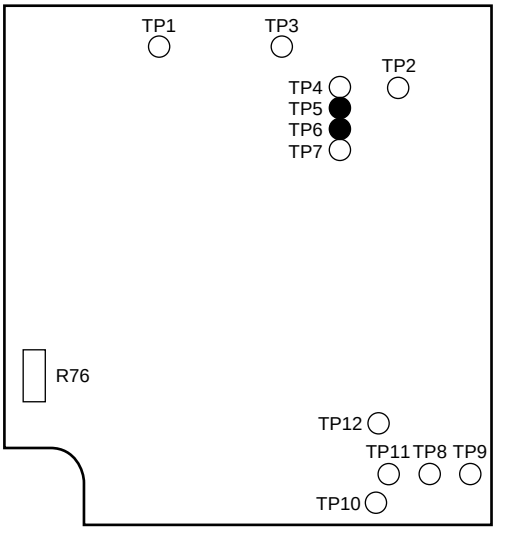
SUB BOARD -COMPOMENT SIDE-



MAIN BOARD -COMPOMENT SIDE-

3-2-10. Heater Voltage Adjustment

Equipment: Digital voltmeter (AC mode)
Test point: TP5 ⇔ TP6/MAIN board
Adjusting point: ⊘RV4 (VH-ADJ)/MAIN board
Specification: 0.65 ±0.03 Vrms



MAIN BOARD -SOLDERING SIDE-

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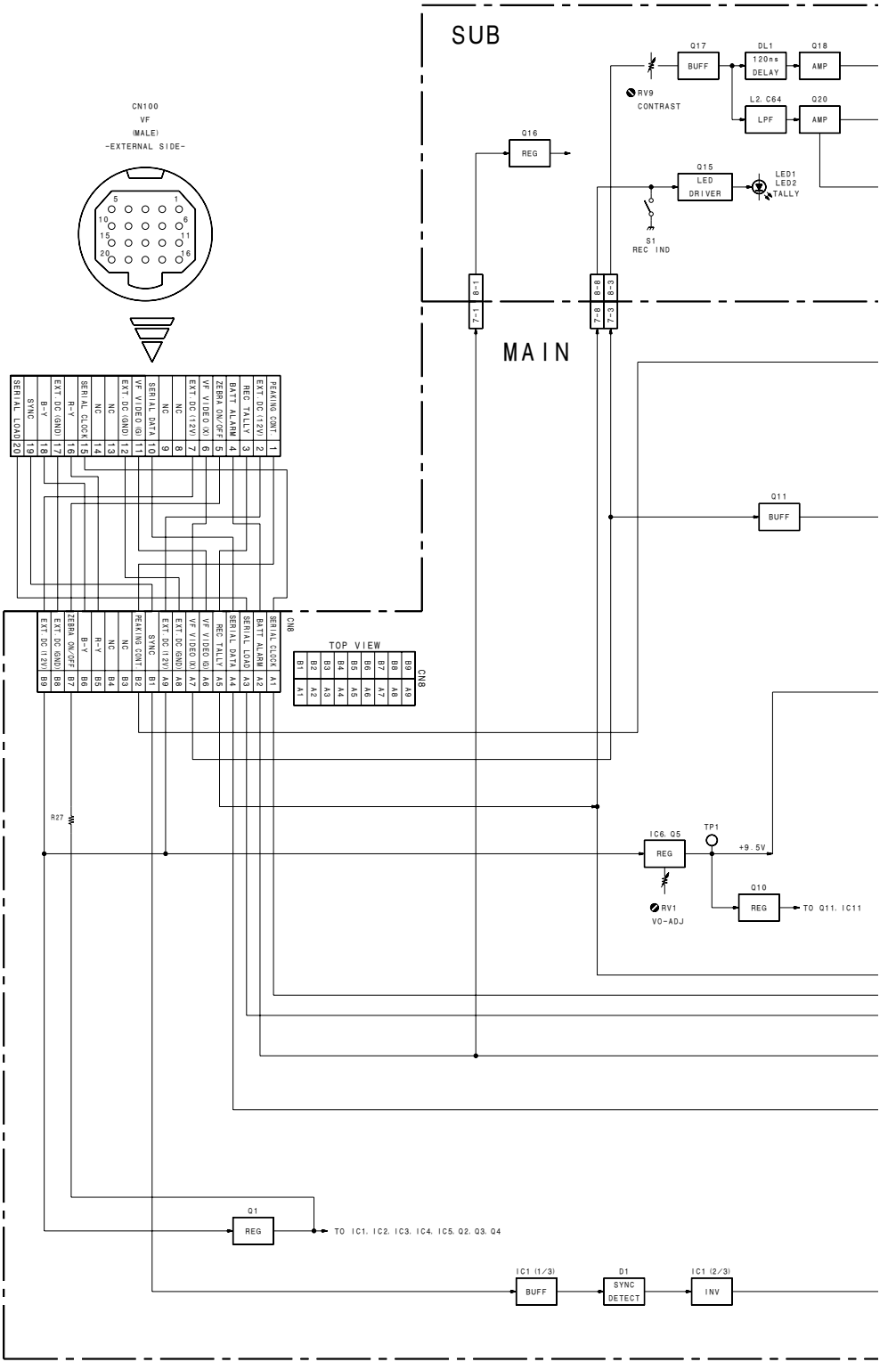
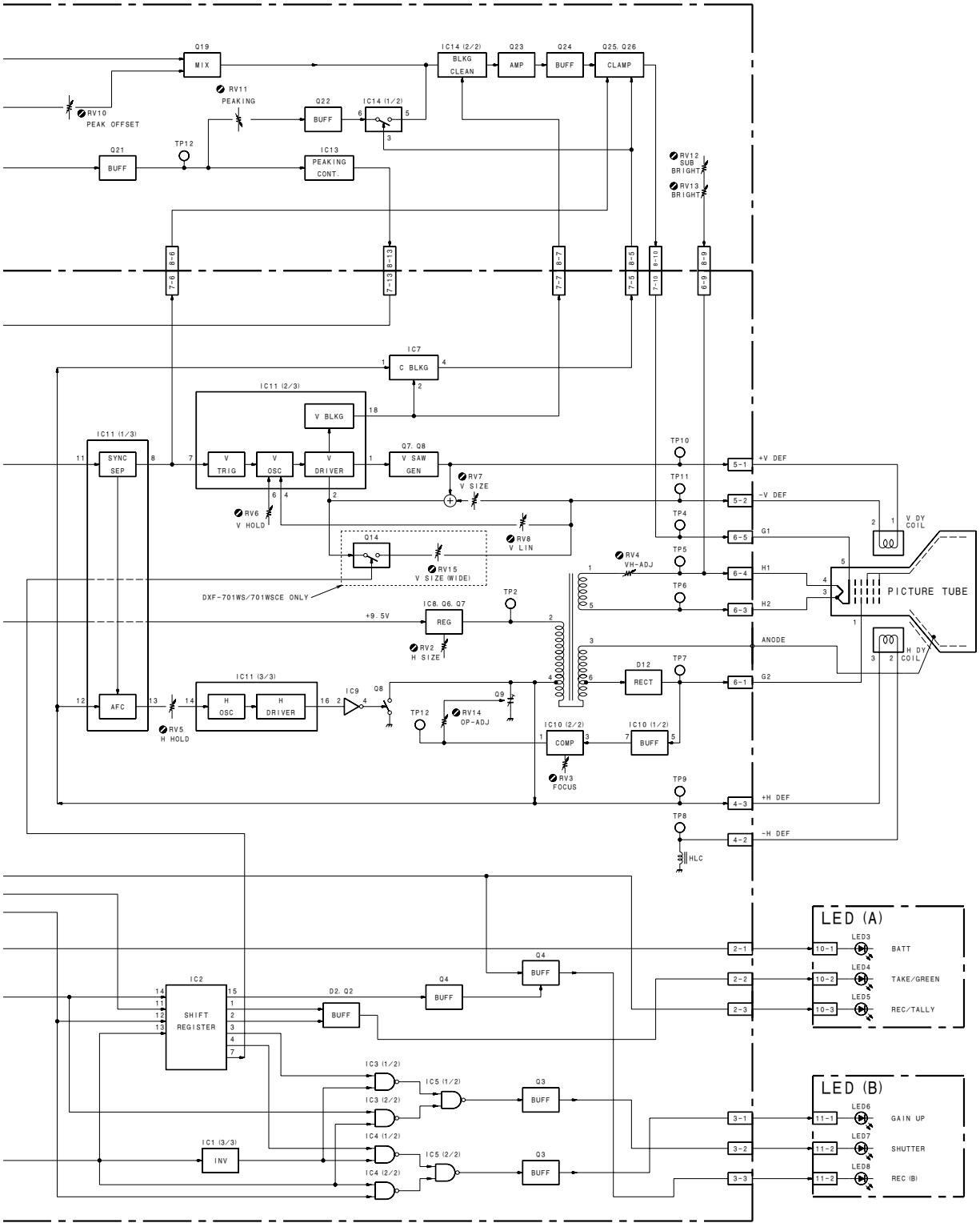
SECTION 4
BLOCK DIAGRAM





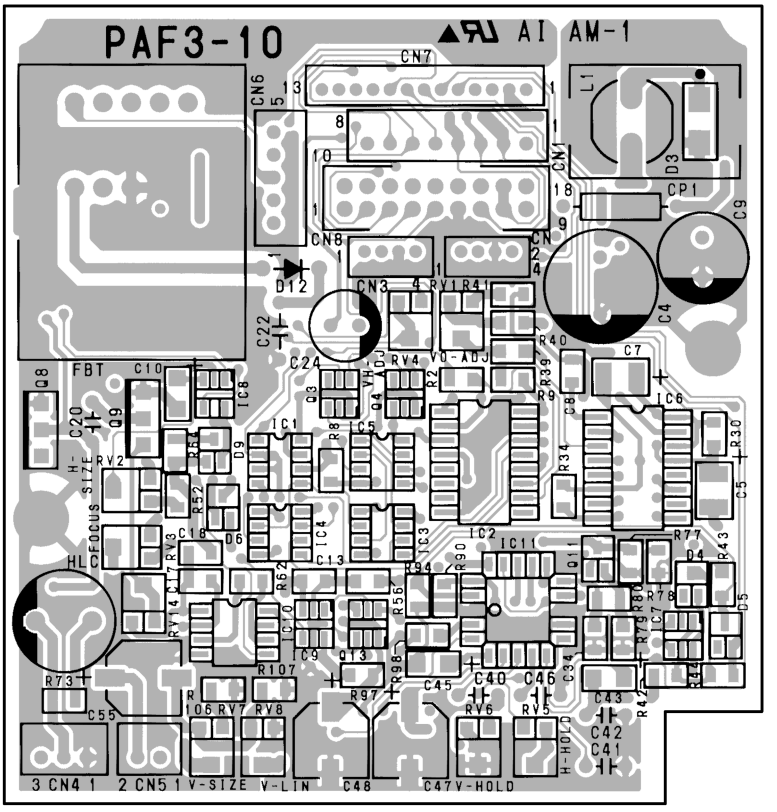
OVERALL BLOCK

B-DXF701WS-OABLOCK/M

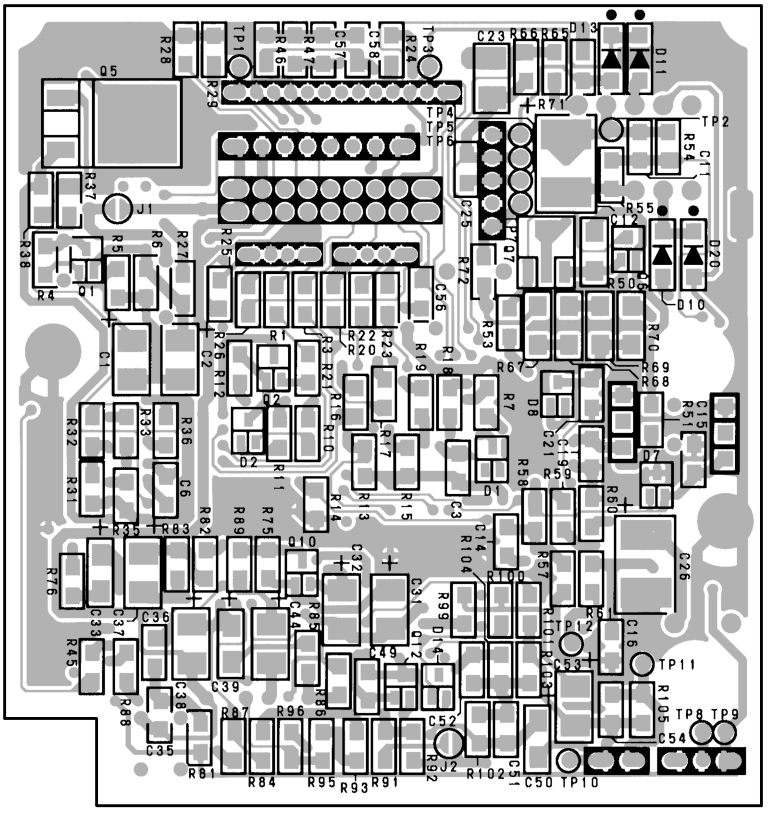
SECTION 5
SCHEMATIC DIAGRAM AND BOARD LAYOUTS

MAIN BOARD

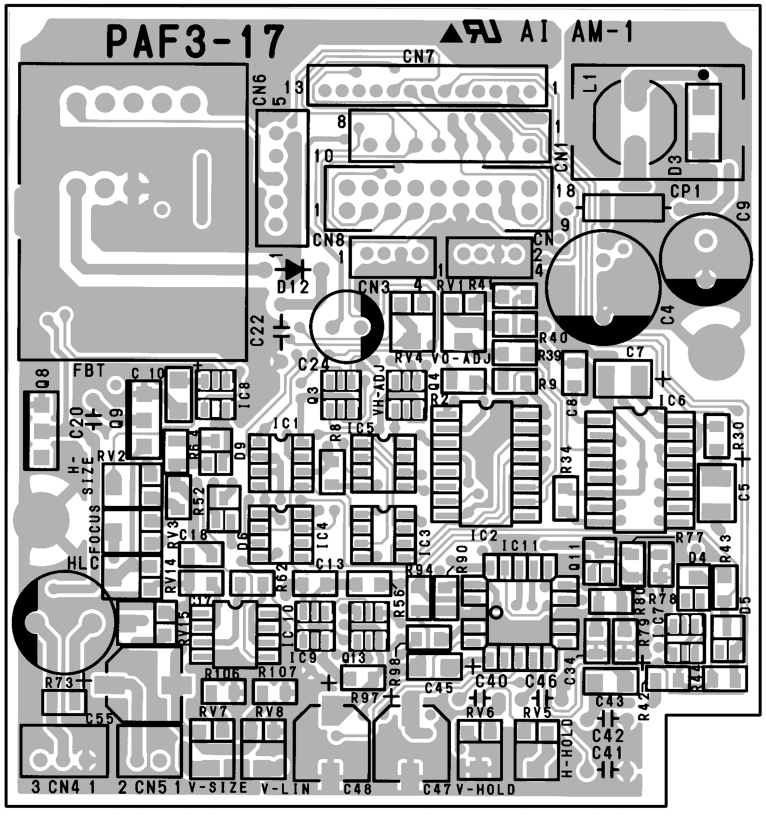
DXF-701
DXF-701CE



-A SIDE-

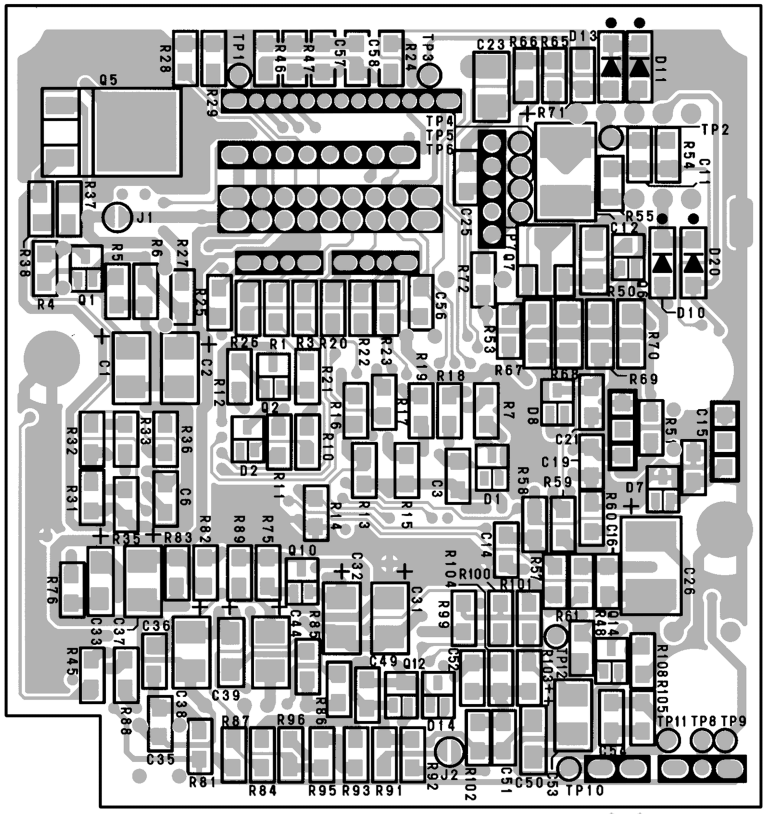


-B SIDE-



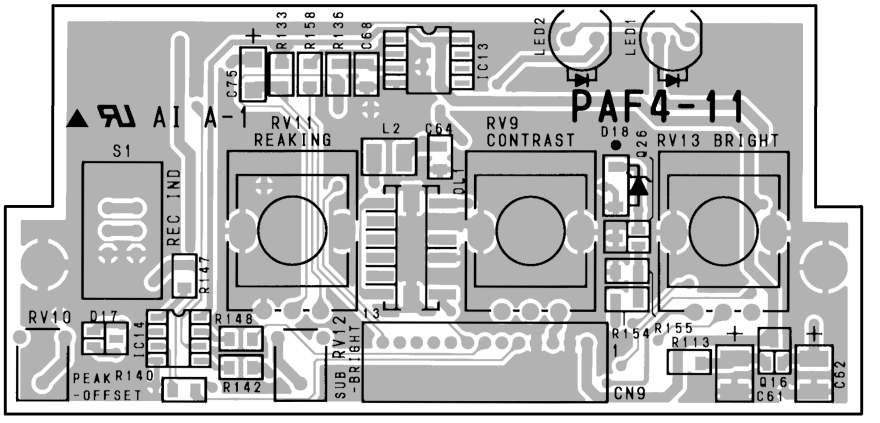
DXF-701WS
DXF-701WSCE

-A SIDE-

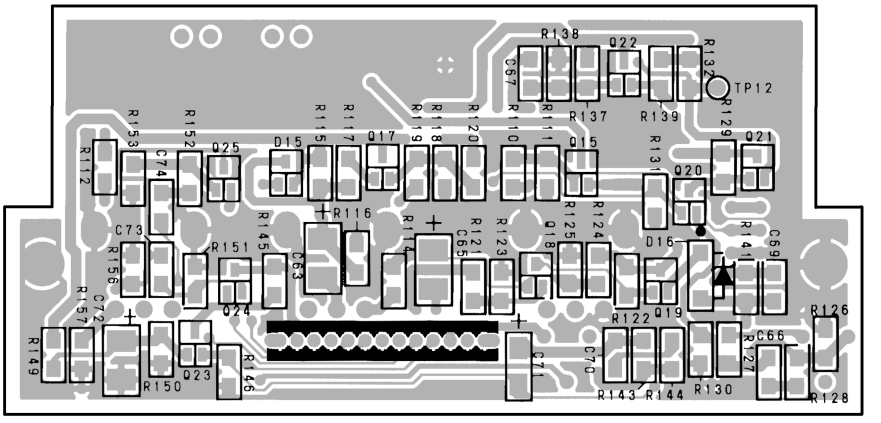


-B SIDE-

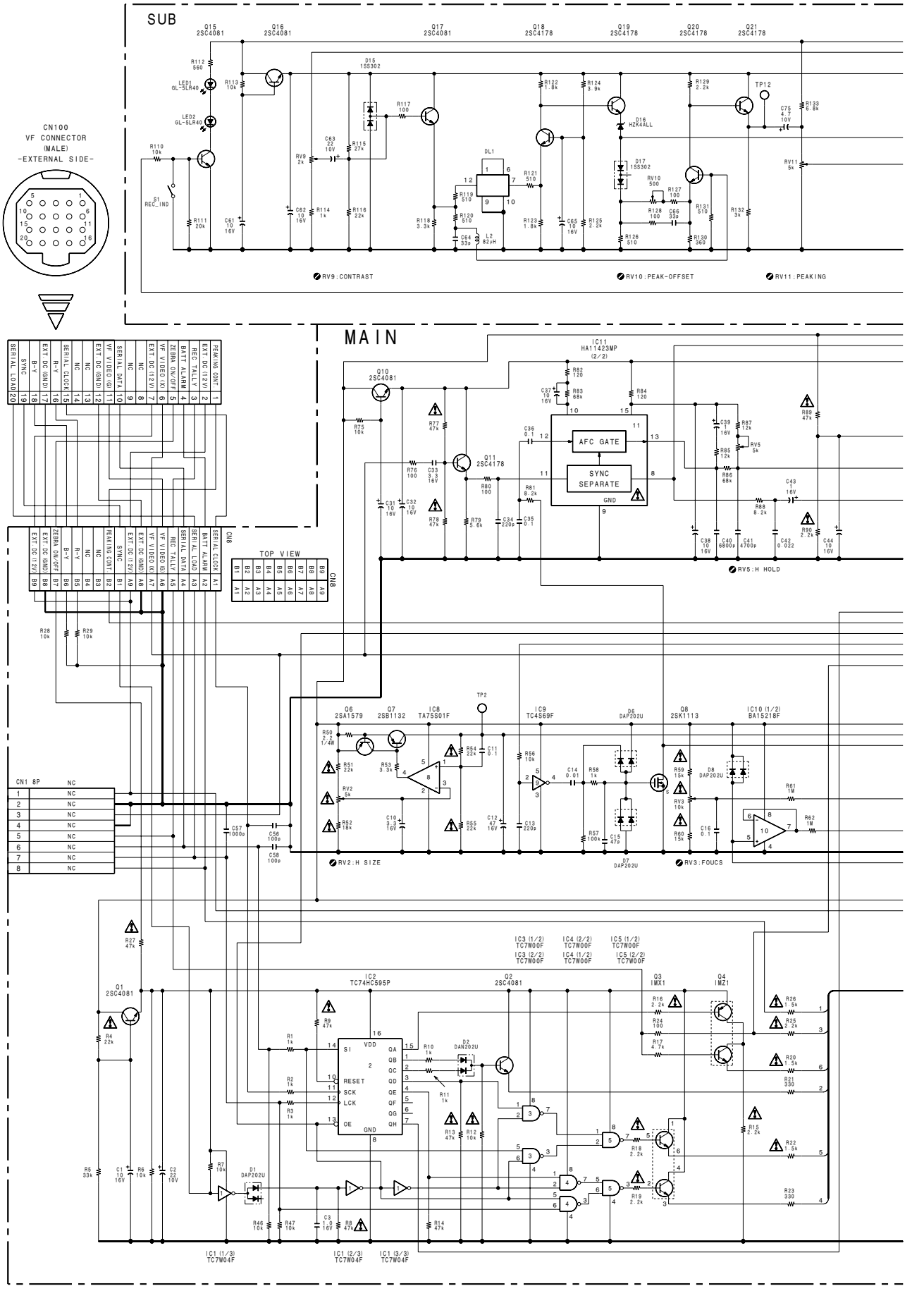
SUB BOARD

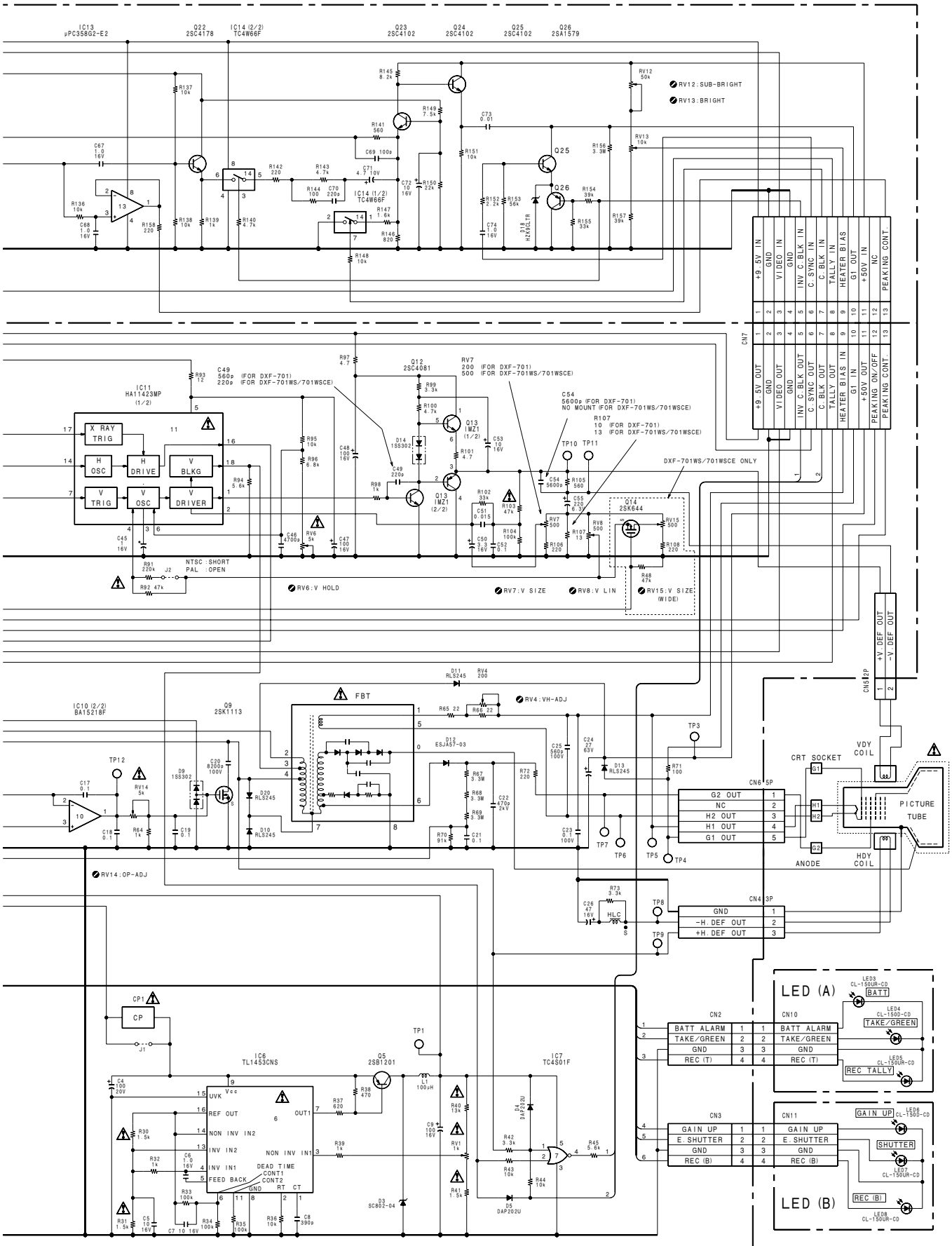


-A SIDE-



-B SIDE-


SUB
MAIN
CN100
VF CONNECTOR
(MALE)
-EXTERNAL SIDE-
RV9:CONTRAST
RV10:PEAK-OFFSET
RV11:PEAKING
RV5:H HOLD
RV2:H SIZE
RV3:FOUCS
AFC GATE
SYNC
SEPARATE
GND
TOP VIEW
CN1 8P
CN8



FRAME

MAIN BOARD
SUB BOARD

B-DXF701WS-FRAME/M

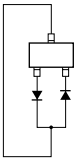
SECTION 6
SEMICONDUCTOR PIN ASSIGNMENTS

ここに記載されている半導体は，それぞれの機能を等価的に表したものです。　なお，互換性のない型名を併記していることがありますので，部品を交換するときは，Spare Partsの章を参照してください。
等価回路はICメーカーのデータブックに従いました。

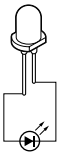
Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

DIODE

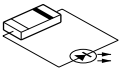
-TOP VIEW-



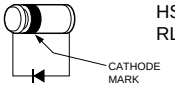
1SS302
1SS302-TE85L



GL-5LR40 ;RED

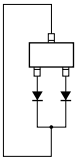


CL-150D-CD
; ORANGE
CL-150UR-CD-T
; RED
CL-150D-CD-T

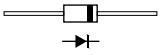


HSK83
RLS245

-TOP VIEW-

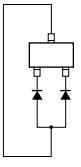


DAN202U



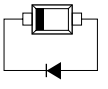
HZK4ALL
HZK9CL

-TOP VIEW-

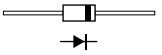


DAP202U

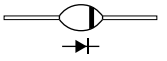
-TOP VIEW-



SC802-04



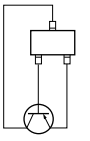
ESJA57



V09C

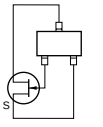
TRANSISTOR

-TOP VIEW-



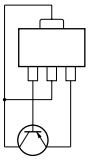
2SA1579-RS

—TOP VIEW—



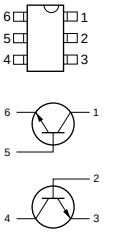
2SK664-TX

-TOP VIEW-

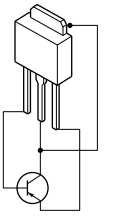


2SB1115A-YQ
2SB1132-R

-TOP VIEW-

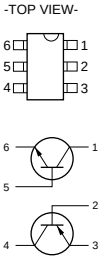


IMX1



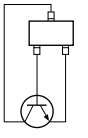
2SB1201

-TOP VIEW-

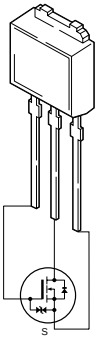


IMZ1

-TOP VIEW-



2SC4081-R
2SC4102
2SC4178-F13



2SK1113

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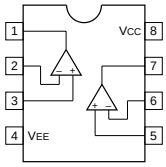
BA10358F-E2 (ROHM)FLAT PACKAGE
UPC358G2 (NEC) FLAT PACKAGE
UPC358G2-E2

DUAL OPERATIONAL AMPLIFIER (HIGH GAIN)
-TOP VIEW-

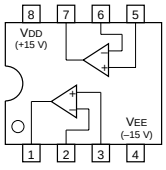


NOTE

	VCC	VEE
SINGLE SUPPLY	+3 to +32V	GND
SPLIT SUPPLIES	+1.5 to +16V	–1.5 to –16V

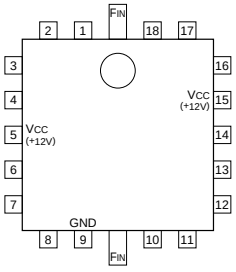
BA15218F (ROHM)FLAT PACKAGE

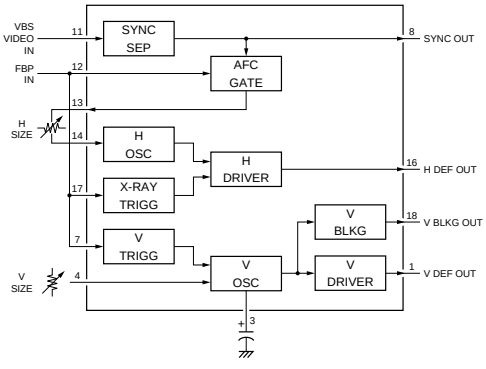
DUAL OPERATIONAL AMPLIFIER
— TOP VIEW —



HA11423MP (HITACHI)FLAT PACKAGE

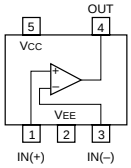
TV H/V SYNC SIGNAL PROCESSOR
-TOP VIEW-





TA75S01F (TOSHIBA)

SINGLE OPERATIONAL AMPLIFIER
—TOP VIEW—

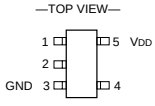


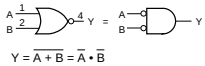
TYPE	SUPPLY VOLTAGE
75S01F	±1.5V to ±6V +3V to +12V
75S558F	±4V to ±18V

TC4S01F (TOSHIBA)CHIP PACKAGE
TC4S01F(TE85R)

C-MOS 2-INPUT NOR GATE

—TOP VIEW—





$Y = \overline{A + B} = \overline{A} \cdot \overline{B}$

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

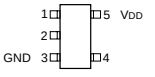
0 ; LOW LEVEL
1 ; HIGH LEVEL

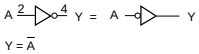
TYPE	VDD
4S01F	+3 to +18V
7S02F	+2 to +6V
7S02FU	
7SH02FU	

TC4S69F (TOSHIBA)CHIP PACKAGE
TC4S69F(TE85R)

C-MOS INVERTER

-TOP VIEW-





$Y = \overline{A}$

A	Y
0	1
1	0

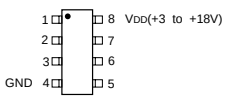
0 ; LOW LEVEL
1 ; HIGH LEVEL

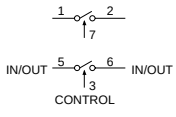
TYPE	VDD
7S04F 7SU04F 7SU04FU	+2 to +6V
4S69F 4SU69F	+3 to +18V
7SH04FU 7SHU04FU	+2 to +5.5V

TC4W66F (TOSHIBA)CHIP PACKAGE

C-MOS DUAL BILATERAL SWITCH

—TOP VIEW—



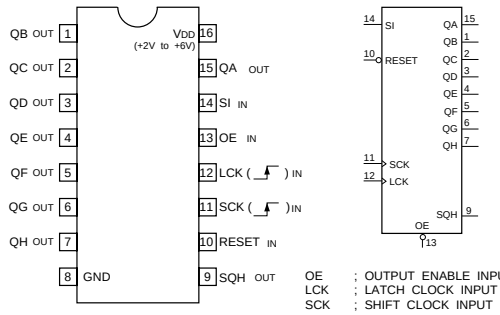


CONTROL	SWITCH
0	OFF
1	ON

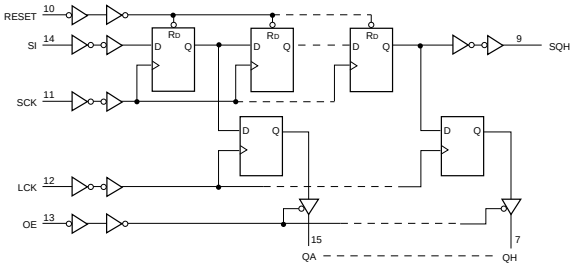
0 ; LOW LEVEL
1 ; HIGH LEVEL

TC74HC595AF (TOSHIBA)FLAT PACKAGE

C-MOS 8-BIT SERIAL-INPUT/SERIAL- OR PARALLEL-OUTPUT
SHIFT REGISTER WITH LATCHED 3-STATE OUTPUT
—TOP VIEW—

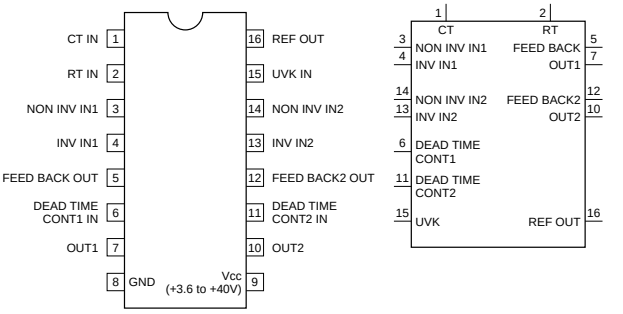


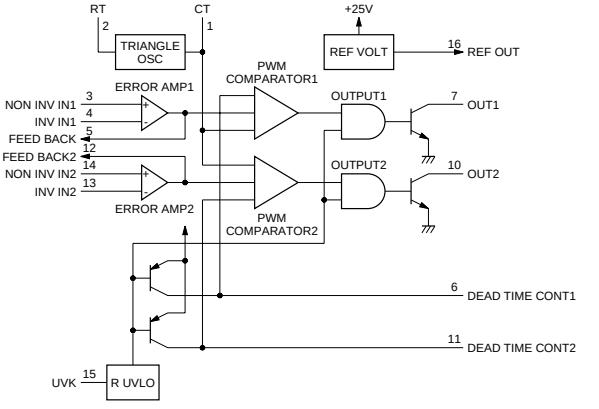
OE ; OUTPUT ENABLE INPUT
LCK ; LATCH CLOCK INPUT
SCK ; SHIFT CLOCK INPUT
RESET ; SHIFT-REGISTER RESET INPUT
SI ; SERIAL IN
QA-QH ; PARALLEL OUTPUT
SQH ; SERIAL OUT



TL1453CNS (TI)FLAT PACKAGE

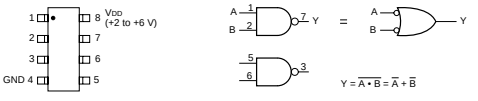
DUAL SWITCHING REGULATOR CONTROLLER
- TOP VIEW -





TC7W00F (TOSHIBA)CHIP PACKAGE

C-MOS DUAL 2-INPUT NAND GATE
-TOP VIEW-



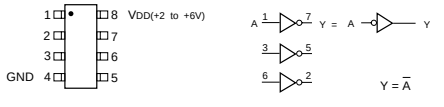
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

TC7WU04F (TOSHIBA)CHIP PACKAGE

C-MOS HEX INVERTERS

—TOP VIEW—



A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

SECTION 7
SPARE PARTS

7-1. NOTES ON REPAIR PARTS

(1) Safety Related Components Warning
Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

(2) Standardization of Parts
Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to “accommodating the improved parts and/or engineering changes” or “standardization of genuine parts”.
This manual’s exploded views and electrical spare parts list are indicating the part numbers of “the standardized genuine parts at present” .

(3) Stock of Parts
Parts marked with “o” SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with “o” will be processed, but allow for additional delivery time.

(4) Units for Capacitors, Inductors and Resistors
The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

Capacitors : µF
Inductors : µH
Resistors : Ω

7−1. 補修用部品注意事項

(1) 安全重要部品

⚠警告

⚠印のついた部品は安全性を維持するために重要な部品です。したがって，交換する時は必ず指定の部品を使ってください。

(2) 部品の共通化

ソニーから供給される部品は，セットに実装されているものと異なることがあります。これは部品の共通化，改良等によるものです。
分解図や電気部品表には現時点での共通化された部品が記載されています。

(3) 部品の在庫

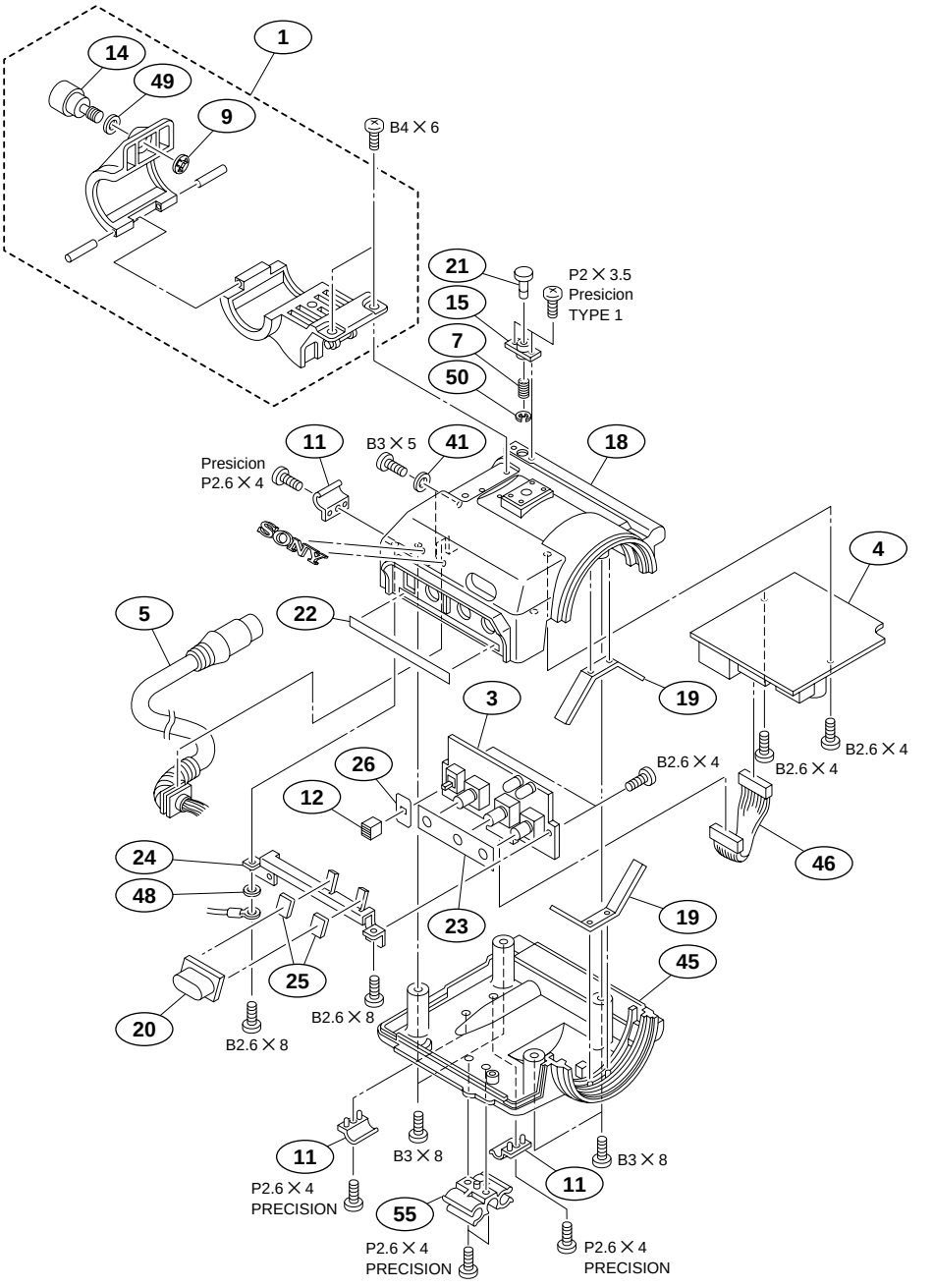
部品表のSP (Supply code) 欄にoで示される部品は交換頻度が低い部品ですので在庫していないことがあり，納期が長くなることがあります。

(4) コンデンサー，インダクター，抵抗の単位

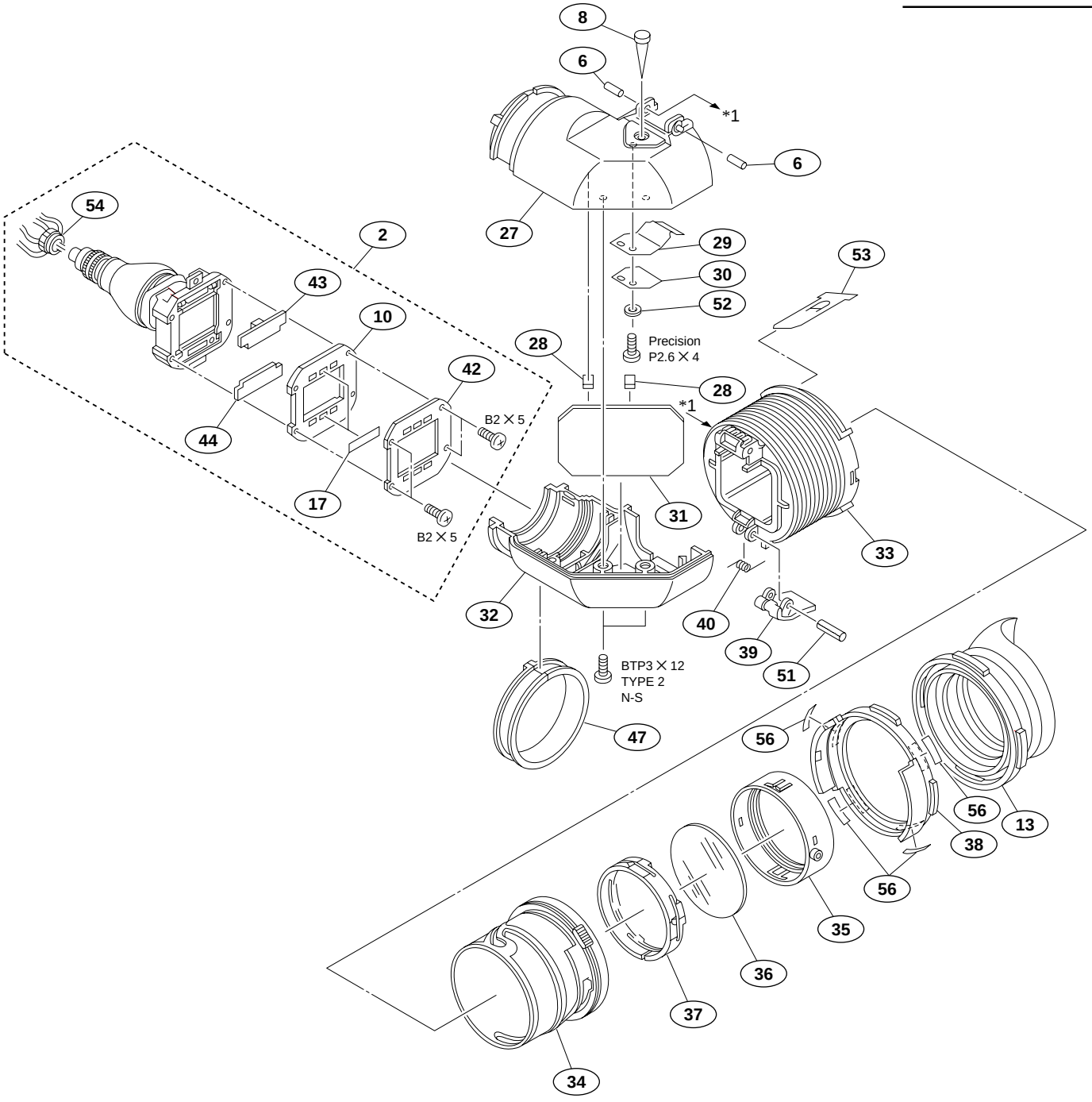
回路図，分解図，電気部品表中，特に明記したものを除き，下記の単位は省略されています。

コンデンサー : µF
インダクター : µH
抵抗 : Ω

7-2. EXPLODED VIEWS



No.	Part No.	SP	Description
1	A-8278-161-A	o	HOLDER ASSY, MICROPHONE
2	⚠ 1-251-463-11	s	CRT/DY+CONNECTOR ASSY
3	1-589-907-11	o	MOUNTED CIRCUIT BOARD,"SUB"
4	⚠ 1-589-908-11	o	MOUNTED CIRCUIT BOARD,"MAIN" (for DXF-701)
	⚠ 1-589-908-21	o	MOUNTED CIRCUIT BOARD,"MAIN" (for DXF-701CE)
	⚠ 1-589-908-31	o	MOUNTED CIRCUIT BOARD,"MAIN" (for DXF-701WS)
	⚠ 1-589-908-41	o	MOUNTED CIRCUIT BOARD,"MAIN" (for DXF-701WSCE)
5	1-777-522-11	o	CABLE, VF
6	2-249-361-00	o	PIN, PARALLEL
7	2-277-466-01	s	SPRING, COMPRESSION
8	2-362-365-00	s	FOOT, RUBBER
9	3-165-904-01	s	WASHER, SCREW STOPPER
10	3-176-022-03	o	SPACER(B), MASK
11	3-678-684-01	s	HOLDER, CABLE
12	3-680-605-00	o	CAP, SLIDE
13	3-686-264-02	s	EYECAP(3)
14	3-686-276-01	o	SCREW, M5
15	3-710-008-02	s	HOUSING, STOPPER
17	9-933-305-01	o	PLATE, SPREAD
18	9-933-325-01	o	CASE, TOP
19	9-933-326-01	o	SPRING, PLATE
20	9-933-327-01	o	COVER TALLY
21	9-933-328-01	s	KNOB, STOPPER
22	9-933-329-01	o	LABEL, SWITCH
23	9-933-330-01	o	PLATE, PARTING
24	9-933-331-01	o	STAY, BOARD
25	9-933-332-01	s	MOLT
26	9-933-333-01	o	PLATE, PARTING
27	9-933-335-01	s	HOLDER T, OUTSIDE
28	9-933-336-01	s	MOLT(2)
29	9-933-337-01	o	SPRING(1), HINGE
30	9-933-338-01	o	SPRING(2), HINGE
31	9-933-339-01	o	MIRROR
32	9-933-340-02	s	HOLDER B, OUTSIDE



No.	Part No.	SP	Description
33	9-933-341-01	s	OUTER RING, EYEPIECE
34	9-933-342-01	o	INNER RING, EYEPIECE
35	9-933-343-01	o	HOLDER, LENS
36	9-933-344-01	s	LOUPE, VF(-3D to 0D)
	3-725-276-01	s	LOUPE(aged eyes), VF(-2D to +1D)
	3-176-501-01	s	LOUPE(aged eyes), VF(-0.5D to +3D)
37	9-933-345-01	o	HOLDER(2), LENS
38	9-933-346-02	s	HOLDER, EYECAP
39	9-933-347-02	s	STOPPER
40	9-933-348-01	s	SPRING, HELICAL TORSION
41	9-933-349-01	s	WASHER
42	9-939-449-01	s	ORNAMENTAL PLATE, MASK
43	9-939-451-01	o	MOUNTED CIRCUIT BOARD, LED(A)
44	9-939-453-02	o	MOUNTED CIRCUIT BOARD, LED(B)
45	9-939-454-02	o	CASE, BOTTOM
46	9-939-455-11	s	HARNESS (13-CORE)
47	9-994-820-01	o	RING, SLIDE
48	7-623-307-07	s	LW 2.6, TYPE A
49	7-623-912-31	s	FIBER WASHER 5, MIDDLE
50	7-624-102-04	s	STOP RING 1.5,TYPE -E
51	7-626-314-31	s	SPRING PIN 2X16
52	7-688-002-12	s	WASHER M2.6
53	9-936-099-01	o	SPRING, FRICTION
54	9-939-450-01	o	SOCKET, CRT
55	3-679-659-04	o	CLAMP, CABLE (DXF-701WS/701WSCE)
56	9-880-270-01	o	SHEET, BOSS FASE AD

7-3. ELECTRICAL PARTS LIST

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------------
LED(A) BOARD
------------
Ref. No.
or Q'ty  Part No.    SP Description

1pc      9-933-451-01 s PRINTED CIRCUIT BOARD, LED(A)
1pc      9-933-312-01 s HARNESS (4-CORE)

CN10     9-933-310-01 s PIN, CONNECTOR 4P

LED3     8-719-026-39 s LED CL-150UR-CD RED
LED4     8-719-026-16 s LED CL-150D-CD ORG
LED5     8-719-026-39 s LED CL-150UR-CD RED
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LED(B) BOARD
------------
Ref. No.
or Q'ty  Part No.    SP Description

1pc      9-939-453-01 s PRINTED CIRCUIT BOARD, LED(B)
1pc      9-939-452-01 s HARNESS (4-CORE)

CN11     9-933-310-01 s PIN, CONNECTOR 4P

LED6     8-719-026-16 s LED CL-150D-CD ORG
LED7     8-719-026-39 s LED CL-150UR-CD RED
LED8     8-719-026-39 s LED CL-150UR-CD RED
```

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MAIN BOARD
----------
Ref. No.
or Q'ty  Part No.    SP Description

1pc   ⚠ 1-589-908-11 s MOUNTED CIRCUIT BOARD, MAIN
                                    (for DXF-701)
1pc   ⚠ 1-589-908-21 s MOUNTED CIRCUIT BOARD, MAIN
                                  (for DXF-701CE)
1pc   ⚠ 1-589-908-31 s MOUNTED CIRCUIT BOARD, MAIN
                                  (for DXF-701WS)
1pc   ⚠ 1-589-908-41 s MOUNTED CIRCUIT BOARD, MAIN
                                (for DXF-701WSCE)
1pc      9-936-098-01 s CASE, SHIELD

C1       9-904-851-01 s TANTALUM, CHIP 10uF 20% 16V
C2       9-904-845-01 s TANTALUM, CHIP 22uF 20% 10V
C3       1-164-346-11 s CERAMIC 1uF 16V
C4       9-933-314-01 s ELECT 100uF 20% 20V
C5       9-904-851-01 s TANTALUM, CHIP 10uF 20% 16V

C6       1-164-346-11 s CERAMIC 1uF 16V
C7       9-904-851-01 s TANTALUM, CHIP 10uF 20% 16V
C8       1-163-265-00 s CERAMIC, CHIP 390pF 5% 50V
C9       9-933-315-01 s ELECT 100uF 20% 16V
C10      1-104-912-11 s TANTALUM, CHIP 3.3uF 20% 16V

C11      1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C12      1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C13      1-163-259-00 s CERAMIC, CHIP 220pF 5% 50V
C14      1-163-021-91 s CERAMIC 0.01uF 10% 50V
C15      1-163-243-91 s CERAMIC, CHIP 47PF 5% 50V

C16      1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C17      1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C18      1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C19      1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C20      1-136-293-11 s FILM 8200pF 5% 100V

C21      1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C22      9-904-854-01 s CERAMIC 470PF 10% 2KV
C23      9-904-853-01 s CERAMIC, CHIP 0.1uF 20% 100V
C24      9-939-680-01 s ELECT 27uF 63V
C25      1-163-269-00 s CERAMIC, CHIP 560pF 5% 50V

C26      1-104-823-11 s TANTALUM, CHIP 47uF 20% 16V
C31      9-904-851-01 s TANTALUM, CHIP 10uF 20% 16V
C32      9-904-851-01 s TANTALUM, CHIP 10uF 20% 16V
C33      1-104-912-11 s TANTALUM, CHIP 3.3uF 20% 16V
C34      1-163-259-00 s CERAMIC, CHIP 220pF 5% 50V

C35      1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C36      1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C37      9-904-851-01 s TANTALUM, CHIP 10uF 20% 16V
C38      9-904-851-01 s TANTALUM, CHIP 10uF 20% 16V
C39      1-135-091-91 s TANTALUM, CHIP 1uF 20% 16V

C40      1-130-481-00 s FILM 6800pF 5% 50V
C41      1-136-287-11 s FILM 4700pF 5% 100V
C42      1-130-487-00 s FILM 0.0022uF 5% 50V
C43      1-135-091-91 s TANTALUM, CHIP 1uF 20% 16V
C44      9-904-851-01 s TANTALUM, CHIP 10uF 20% 16V

C45      1-135-091-91 s TANTALUM, CHIP 1uF 20% 16V
C46      1-130-479-11 s FILM 4700pF 5% 50V
C47      9-904-855-01 s ELECT 100uF 20% 16V
C48      9-904-855-01 s ELECT 100uF 20% 16V
C49      1-163-269-00 s CERAMIC, CHIP 560pF 5% 50V
                                  (for DXF-701/701CE)

C49      1-163-259-00 s CERAMIC, CHIP 220pF 5% 50V
                              (for DXF-701WS/701WSCE)
```

(MAIN BOARD)

Ref. No. or Q'ty		Part No.	SP	Description
C50		1-104-912-11	s	TANTALUM, CHIP 3.3uF 20% 16V
C51		1-163-023-00	s	CERAMIC, CHIP 0.015uF 10% 50V
C52		1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C53		9-904-851-01	s	TANTALUM, CHIP 10uF 20% 16V
C54		1-163-018-00	s	CERAMIC, CHIP 5600pF 10% 50V (for DXF-701/701CE)
C55		9-980-618-01	s	ELECT 220uF 20% 6.3V
C56		1-163-251-00	s	CERAMIC, CHIP 100pF 5% 50V
C57		1-163-009-00	s	CERAMIC, CHIP 1000pF 5% 50V
C58		1-163-251-00	s	CERAMIC, CHIP 100pF 5% 50V
CN1		1-564-208-11	s	PIN, CONNECTOR 8P
CN2		9-933-322-01	s	PIN, CONNECTOR 4P
CN3		9-933-322-01	s	PIN, CONNECTOR 4P
CN4		9-994-792-01	s	PIN, CONNECTOR 3P
CN5		9-994-793-01	s	PIN, CONNECTOR 2P
CN6		1-564-707-11	s	CONNECTOR 5P MALE
CN7		9-939-458-01	s	CONNECTOR 13P
CN8		1-580-538-11	s	PIN, CONNECTOR (PC BOARD) 18P
CP1	⚠	9-904-864-01	s	RES, FUSIBLE
D1		8-719-941-09	s	DIODE DAP202U
D2		8-719-941-86	s	DIODE DAN202U
D3		8-719-989-76	s	DIODE SC802-04
D4		8-719-941-09	s	DIODE DAP202U
D5		8-719-941-09	s	DIODE DAP202U
D6		8-719-941-09	s	DIODE DAP202U
D7		8-719-941-09	s	DIODE DAP202U
D8		8-719-941-09	s	DIODE DAP202U
D9		8-719-820-41	s	DIODE 1SS302
D10		8-719-976-56	s	DIODE RLS245
D11		8-719-976-56	s	DIODE RLS245
D12		8-719-919-16	s	DIODE ESJA57-03
D13		8-719-976-56	s	DIODE RLS245
D14		8-719-820-41	s	DIODE 1SS302
D20		8-719-976-56	s	DIODE RLS245
FBT	⚠	1-439-419-12	s	TRANSFORMER, FLYBACK
HLC		1-459-823-13	s	COIL, HORIZONTAL LINEARITY
IC1		8-759-242-74	s	IC TC7W04F
IC2		8-759-233-44	s	IC TC74HC595AF
IC3		8-759-242-72	s	IC TC7W00F
IC4		8-759-242-72	s	IC TC7W00F
IC5		8-759-242-72	s	IC TC7W00F
IC6	⚠	8-759-972-76	s	IC TL1453CNS
IC7		8-759-209-54	s	IC TC4S01F
IC8		8-759-075-66	s	IC TA75S01F
IC9		8-759-209-57	s	IC TC4S69F
IC10		8-759-981-44	s	IC BA15218F-K
IC11	⚠	8-759-300-28	s	IC HA11423MP
L1		9-933-321-01	s	INDUCTOR, CHIP 100uH
Q1		8-729-905-38	s	TRANSISTOR 2SC4081T106R
Q2		8-729-905-38	s	TRANSISTOR 2SC4081T106R
Q3		8-729-907-26	s	TRANSISTOR IMX1
Q4		8-729-907-46	s	TRANSISTOR IMZ1
Q5		8-729-024-66	s	TRANSISTOR 2SB1201-S
Q6		8-729-927-90	s	TRANSISTOR 2SA1579-RS

(MAIN BOARD)

Ref. No. or Q'ty		Part No.	SP	Description
Q7		8-729-106-60	s	TRANSISTOR 2SB1115A
Q8		8-729-013-08	s	TRANSISTOR 2SK1113
Q9		8-729-013-08	s	TRANSISTOR 2SK1113
Q10		8-729-905-38	s	TRANSISTOR 2SC4081T106R
Q11		8-729-117-72	s	TRANSISTOR 2SC4178
Q12		8-729-905-38	s	TRANSISTOR 2SC4081T106R
Q13		8-729-907-46	s	TRANSISTOR IMZ1
Q14		8-729-422-10	s	TRANSISTOR 2SK664-TX (for DXF-701WS/701WSCE)
R1		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R2		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R3		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R4	⚠	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R5		1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R6		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R7		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R8	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R9	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R10		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R11		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R12		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R13	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R14	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R15	⚠	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R16	⚠	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R17		1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R18	⚠	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R19	⚠	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R20	⚠	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R21		1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R22	⚠	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R23		1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R24		1-216-025-11	s	METAL, CHIP 100 5% 1/10W
R25	⚠	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R26	⚠	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R27	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R28		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R29		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R30	⚠	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R31	⚠	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R32		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R33		1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R34		1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R35		1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R36		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R37		1-216-044-00	s	METAL, CHIP 620 5% 1/10W
R38		1-216-041-11	s	METAL, CHIP 470 5% 1/10W
R39		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R40	⚠	1-216-076-00	s	METAL, CHIP 13K 5% 1/10W
R41	⚠	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R42		1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R43		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R44		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R45		1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R46		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R47		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R48		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R50		9-939-457-01	s	METAL, CHIP 2.2 1/4W
R51	⚠	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W

(MAIN BOARD)

Ref. No. or Q'ty		Part No.	SP	Description
R52	⚠	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R53		1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R54	⚠	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R55	⚠	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R56		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R57		1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R58		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R59	⚠	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R60	⚠	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R61		1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R62		1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R64		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R65		1-216-009-00	s	METAL, CHIP 22 5% 1/10W
R66		1-216-009-00	s	METAL, CHIP 22 5% 1/10W
R67		9-904-861-01	s	CARBON, CHIP 3.3M 1% 1/8W
R68		9-904-861-01	s	CARBON, CHIP 3.3M 1% 1/8W
R69		9-904-861-01	s	CARBON, CHIP 3.3M 1% 1/8W
R70		9-904-862-01	s	CARBON, CHIP 91K 1% 1/8W
R71		1-216-025-11	s	METAL, CHIP 100 5% 1/10W
R72		1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R73		1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R75		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R76		1-216-025-11	s	METAL, CHIP 100 5% 1/10W
R77	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R78	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R79		1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R80		1-216-025-11	s	METAL, CHIP 100 5% 1/10W
R81		1-216-071-00	s	METAL, CHIP 8.2K 5% 1/10W
R82		1-216-027-00	s	METAL, CHIP 120 5% 1/10W
R83		1-216-093-00	s	METAL, CHIP 68K 5% 1/10W
R84		1-216-027-00	s	METAL, CHIP 120 5% 1/10W
R85		1-216-075-00	s	METAL, CHIP 12K 5% 1/10W
R86		1-216-093-00	s	METAL, CHIP 68K 5% 1/10W
R87		1-216-075-00	s	METAL, CHIP 12K 5% 1/10W
R88		1-216-071-00	s	METAL, CHIP 8.2K 5% 1/10W
R89	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R90	⚠	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R91		1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R92	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R93		9-939-459-01	s	METAL, CHIP 12
R94		1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R95		1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R96		1-216-069-11	s	METAL, CHIP 6.8K 5% 1/10W
R97		1-216-308-00	s	METAL, CHIP 4.7 5% 1/10W
R98		1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R99		1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R100		1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R101		1-216-308-00	s	METAL, CHIP 4.7 5% 1/10W
R102		1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R103	⚠	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R104		1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R105		1-216-043-11	s	METAL, CHIP 560 5% 1/10W
R106		1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R107		1-216-001-00	s	METAL, CHIP 10 5% 1/10W (for DXF-701/701CE)
R107		1-216-004-00	s	METAL, CHIP 13 5% 1/10W (for DXF-701WS/701WSCE)
R108		1-216-033-00	s	METAL, CHIP 220 5% 1/10W (for DXF-701WS/701WSCE)

(MAIN BOARD)

Ref. No. or Q'ty		Part No.	SP	Description
RV1	⚠	9-933-316-01	s	RES, VAR METAL 1K
RV2	⚠	9-933-317-01	s	RES, VAR METAL 5K
RV3	⚠	9-933-318-01	s	RES, VAR METAL 10K
RV4		9-933-319-01	s	RES, VAR METAL 200
RV5	⚠	9-933-317-01	s	RES, VAR METAL 5K
RV6	⚠	9-933-317-01	s	RES, VAR METAL 5K
RV7		9-933-319-01	s	RES, VAR METAL 200 (for DXF-701/701CE)
RV7		9-933-320-01	s	RES, VAR METAL 500 (for DXF-701WS/701WSCE)
RV8		9-933-320-01	s	RES, VAR METAL 500
RV14	⚠	9-933-317-01	s	RES, VAR METAL 5K
RV15		9-933-320-01	s	RES, VAR METAL 500 (for DXF-701WS/701WSCE)

SUB BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-589-907-11	s	MOUNTED CIRCUIT BOARD, SUB
C61	9-904-844-01	s	TANTALUM, CHIP 10uF 20% 16V
C62	9-904-844-01	s	TANTALUM, CHIP 10uF 20% 16V
C63	9-904-845-01	s	TANTALUM, CHIP 22uF 20% 10V
C64	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C65	9-904-844-01	s	TANTALUM, CHIP 10uF 20% 16V
C66	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C67	1-164-346-11	s	CERAMIC 1uF 16V
C68	1-164-346-11	s	CERAMIC 1uF 16V
C69	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C70	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C71	9-904-846-01	s	TANTALUM, CHIP 4.7uF 20% 10V
C72	9-904-844-01	s	TANTALUM, CHIP 10uF 20% 16V
C73	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C74	1-164-346-11	s	CERAMIC, CHIP 1uF 16V
C75	1-135-210-11	s	TANTALUM 4.7uF 10% 10V
CN8	9-939-684-01	s	CONNECTOR, 13P
CN9	9-939-684-01	s	CONNECTOR, 13P
D15	8-719-820-41	s	DIODE 1SS302
D16	9-904-842-01	s	DIODE HZK4ALLTR
D17	8-719-820-41	s	DIODE 1SS302
D18	9-904-843-01	s	DIODE HZK9CLTR
DL1	1-406-729-21	s	DELAY LINE 120ns
IC13	8-759-100-94	s	IC UPC358G2
IC14	8-759-242-66	s	IC TC4W66F
L2	1-412-210-21	s	INDUCTOR, CHIP 82uH
LED1	8-719-950-44	s	LED GL5LR40 RED
LED2	8-719-950-44	s	LED GL5LR40 RED
Q15	8-729-905-35	s	TRANSISTOR 2SC4081R
Q16	8-729-905-35	s	TRANSISTOR 2SC4081R
Q17	8-729-905-35	s	TRANSISTOR 2SC4081R
Q18	8-729-117-72	s	TRANSISTOR 2SC4178
Q19	8-729-117-72	s	TRANSISTOR 2SC4178
Q20	8-729-117-72	s	TRANSISTOR 2SC4178
Q21	8-729-117-72	s	TRANSISTOR 2SC4178
Q22	8-729-117-72	s	TRANSISTOR 2SC4178
Q23	9-904-841-01	s	TRANSISTOR 2SC4102
Q24	9-904-841-01	s	TRANSISTOR 2SC4102
Q25	9-904-841-01	s	TRANSISTOR 2SC4102
Q26	8-729-927-87	s	TRANSISTOR 2SA1579RR
R110	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R111	1-216-080-00	s	METAL, CHIP 20K 5% 1/10W
R112	1-216-043-11	s	METAL, CHIP 560 5% 1/10W
R113	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R114	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R115	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R116	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R117	1-216-025-11	s	METAL, CHIP 100 5% 1/10W
R118	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R119	1-216-042-00	s	METAL, CHIP 510 5% 1/10W
R120	1-216-042-00	s	METAL, CHIP 510 5% 1/10W
R121	1-216-042-00	s	METAL, CHIP 510 5% 1/10W
R122	1-216-055-11	s	METAL, CHIP 1.8K 5% 1/10W
R123	1-216-055-11	s	METAL, CHIP 1.8K 5% 1/10W
R124	1-216-063-00	s	METAL, CHIP 3.9K 5% 1/10W

(SUB BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R125	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R126	1-216-042-00	s	METAL, CHIP 510 5% 1/10W
R127	1-216-025-11	s	METAL, CHIP 100 5% 1/10W
R128	1-216-025-11	s	METAL, CHIP 100 5% 1/10W
R129	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R130	1-208-771-11	s	METAL, CHIP 360 5% 1/10W
R131	1-216-042-00	s	METAL, CHIP 510 5% 1/10W
R132	1-216-060-00	s	METAL, CHIP 3K 5% 1/10W
R133	1-216-069-00	s	METAL, CHIP 6.8K 5% 1/10W
R136	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R137	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R138	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R139	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R140	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R141	1-216-043-11	s	METAL, CHIP 560 5% 1/10W
R142	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R143	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R144	1-216-025-11	s	METAL, CHIP 100 5% 1/10W
R145	1-216-071-00	s	METAL, CHIP 8.2K 5% 1/10W
R146	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R147	1-216-054-00	s	METAL, CHIP 1.6K 5% 1/10W
R148	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R149	1-216-070-00	s	METAL, CHIP 7.5K 5% 1/10W
R150	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R151	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R152	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R153	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W
R154	1-216-087-11	s	METAL 39K 5% 1/10W
R155	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R156	1-216-133-00	s	METAL, CHIP 3.3M 5% 1/10W
R157	1-216-087-11	s	METAL 39K 5% 1/10W
R158	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
RV9	9-933-301-01	s	RES, VAR CARBON 2K
RV10	9-939-681-01	s	RES, VAR 500
RV11	9-939-682-01	s	RES, VAR CARBON 5K
RV12	9-939-683-01	s	RES, VAR 50K
RV13	9-933-302-01	s	RES, VAR CARBON 10K
S1	1-570-845-11	s	SWITCH, SLIDE

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DXF-701 (J, UC)
DXF-701CE (EK)
DXF-701WS (J, UC)
DXF-701WSCE (CE)
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